

HATS, WOOL-FELT

[A preliminary report for this industry was issued under date of August 1, 1928]

Description of the industry.—This industry embraces those establishments whose principal products are wool-felt hats. Some of these establishments are textile mills which manufacture the felt and make it into finished hats, hats in the rough, or hat bodies; while others manufacture men's finished hats from purchased hat bodies or hats in the rough. Establishments whose principal products are women's wool-felt hats made from purchased hats in the rough are included in the "Millinery" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
1927-----	17	2,185	\$2,284,018	\$4,784,575	\$9,381,645	\$4,597,070	2,422
1925-----	22	1,854	1,985,798	5,122,755	8,948,644	3,825,889	2,550
1923-----	21	1,950	2,004,774	4,457,010	8,643,217	4,186,207	2,762
1921-----	26	1,428	1,347,685	2,453,607	4,964,324	2,510,717	(²)
1919-----	40	1,448	1,387,777	3,699,822	6,739,652	3,039,830	2,694
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	(³)	17.9	15.0	-6.6	4.8	20.2	-5.0
1923-1925-----	(³)	-4.9	-9	14.9	3.5	-8.6	-7.7
1923-1927-----	(³)	12.1	13.9	7.3	8.5	9.8	-12.3
1919-1927-----	(³)	50.9	64.6	29.3	39.2	51.2	-10.1

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Not shown where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	130	<i>Horse-power</i> 2,422	121	<i>Horse-power</i> 2,550	107	<i>Horse-power</i> 2,762
Steam engines-----	11	1,620	14	1,795	17	2,125
Steam turbines-----	1	100	2	180		
Internal-combustion engines-----	3	255	4	40		
Water wheels and turbines-----	3	255	2	160	3	267
Electric motors driven by purchased current-----	115	447	99	375	87	370
Electric motors, total-----	198	1,187	185	1,051	191	1,226
Driven by purchased current-----	115	447	99	375	87	370
Driven by current generated in establishment reporting-----	83	740	86	676	104	856
Electric generators-----	4	<i>Kilowatts</i> 738	6	<i>Kilowatts</i> 936	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—MATERIALS AND EQUIPMENT USED IN THE WOOL-FELT HAT INDUSTRY:
1927, 1925, AND 1919

[For State statistics on materials used in the entire wool-manufactures group of industries, see Table 3, p. 409]

KIND	1927	1925	1919
MATERIALS			
Wool:	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
In condition in which purchased ¹	228, 956	260, 859	200, 294
Equivalent in scoured condition.....	228, 956	214, 936	194, 828
Wool waste and noils.....	1, 859, 796	1, 260, 022	711, 747
Wool-felt hat bodies and hats in the rough.....	<i>Dozens</i>	<i>Dozens</i>	<i>Dozens</i>
	10, 164	59, 574	72, 213
EQUIPMENT			
Cards (sets).....	<i>Number</i>	<i>Number</i>	<i>Number</i>
Pickers.....	107	139	(?)
Hat formers.....	16	15	(?)
	51	96	(?)

¹ Statistics for domestic and for foreign wool used can not be shown separately without disclosing operations of individual establishments.² No data.

TABLE 4.—PRODUCTS, BY CLASS, NUMBER, AND VALUE, FOR THE UNITED STATES: 1921 TO 1927

[For State statistics on products for the entire wool-manufactures group of industries, see Table 4, p. 412]

CLASS	1927	1925	1923	1921
Aggregate value ¹	\$9, 381, 645	\$8, 948, 644	\$8, 643, 217	\$4, 964, 324
Wool-felt hats, total:				
Dozens.....	386, 251	373, 019	453, 951	280, 346
Value.....	\$5, 527, 477	\$6, 340, 306	\$7, 182, 458	\$4, 048, 736
Men's—				
Dozens.....	197, 379	142, 169	139, 152	(?)
Value.....	\$3, 003, 105	\$2, 739, 594	\$2, 183, 982	(?)
Women's and children's—				
Dozens.....	188, 872	230, 850	314, 799	(?)
Value.....	\$2, 524, 372	\$3, 600, 712	\$4, 998, 476	(?)
Wool-felt hat bodies and hats in the rough:				
Dozens.....	378, 876	185, 452	59, 196	55, 310
Value.....	\$2, 734, 287	\$1, 347, 337	\$478, 589	\$245, 400
Other products, value.....	\$1, 119, 881	\$1, 261, 001	\$982, 170	\$670, 188

¹ In addition, wool-felt hats to the following values were reported as secondary products by establishments classified in other industries: For 1927, \$646,154; for 1925, \$472,093; for 1923, \$1,450,559.² Not called for on schedule.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for the only State for which separate figures can be given without disclosing data for individual establishments. One of the "Other States," however, reported a larger value of products than the State shown separately]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaries officers and employees	Wage earners (average for the year)	
United States.....	17	2,297	9	103	2,185	2,422
Pennsylvania.....	9	593	8	33	552	949
Other States ¹	8	1,704	1	70	1,633	1,473

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$297,350	\$2,284,018	\$4,607,656	\$176,919	\$9,381,645	\$4,597,070
Pennsylvania.....	87,987	474,665	1,163,102	32,176	2,364,239	1,168,961
Other States ¹	209,363	1,809,353	3,444,554	144,743	7,017,406	3,428,109

¹ California, 1 establishment; Massachusetts, 2; New Jersey, 2; New York, 3.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

WOOL PULLING

Description of the industry.—This industry designation covers (a) independent establishments engaged primarily in pulling wool, on contract, from pelts owned by others, and (b) independent establishments engaged primarily in pulling wool from purchased pelts. The establishments in the first class report under the head "Value of products" only the amounts received for work done, while those in the second class report the amounts paid for the pelts under "Cost of materials" and the value of the wool and skins under "Value of products." Thus, the comparability of the statistics for cost of materials and value of products as between one census year and another is affected by variations in the relative importance of the two classes of establishments.

Considerable wool pulling is done in tanning and in slaughtering and meat-packing establishments, but this work is not represented in the statistics for the wool-pulling industry, which embraces only those establishments engaged wholly or mainly in wool pulling.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927.....	18	524	\$768,990	\$12,466,056	\$14,640,401	\$2,174,345	2,403
1925.....	23	573	840,859	13,637,313	15,209,221	1,571,908	2,706
1923.....	27	696	866,468	11,308,221	15,176,021	3,867,800	2,837
1921.....	22	552	693,475	5,197,095	6,767,161	1,570,066	(²)
1919.....	24	705	909,788	12,809,592	17,361,231	4,551,639	2,162
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	(3)	—8.6	—8.5	—8.6	—3.7	38.3	—11.2
1923-1925.....	(3)	—17.7	—3.0	20.6	.2	—59.4	—4.6
1923-1927.....	(3)	—24.7	—11.3	10.2	—3.5	—43.8	—15.3
1919-1927.....	(3)	—25.7	—15.5	—2.7	—15.7	—52.2	11.1

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for the only State for which separate figures can be given without disclosing data for individual establishments]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	18	608	14	70	524	2,403
Pennsylvania.....	4	232	7	19	206	635
Other States ¹	14	376	7	51	318	1,768

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$191,328	\$768,990	\$12,369,437	\$96,619	\$14,640,401	\$2,174,845
Pennsylvania.....	67,226	329,570	5,445,372	33,001	6,526,594	1,048,221
Other States ¹	124,102	439,420	6,924,065	63,618	8,113,807	1,126,124

¹ California, 3 establishments; Illinois, 2; Indiana, 1; Maine, 2; New Jersey, 1; Ohio, 1; Oregon, 1; Utah, 1; Virginia, 1; Washington, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

WOOL SCOURING

[A preliminary report for this industry was issued under date of July 27, 1928]

Description of the industry.—This industry embraces (a) independent establishments engaged primarily in scouring, sorting, and carbonizing wool owned by others, and (b) independent establishments engaged primarily in scouring, sorting, and carbonizing purchased wool. As a rule, however, these operations are performed in the mills which manufacture the wool into yarn or cloth, and the work done in these mills is not represented in the statistics for the wool-scouring industry.

The establishments which scour wool on contract report as "Value of products" only the amounts received for their work, whereas those which scour purchased wool report the amount paid for unscoured wool under "Cost of materials" and the value of the scoured wool as "Value of products." Thus the comparability of the figures for cost of materials and value of products as between one census year and another is affected by variations in the relative amounts of work done by the two classes of establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Num- ber of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of ma- terials, sup- plies, fuel, and power	Value of products	Value added by manu- facture ¹	Horse- power
1927.....	25	1,386	\$1,981,774	\$3,009,956	\$6,661,994	\$3,652,038	7,935
1925.....	25	1,112	1,600,657	2,527,166	5,831,480	3,304,314	7,823
1923.....	26	1,473	2,025,307	4,528,982	8,190,091	3,661,109	6,976
1921.....	24	1,536	2,067,467	3,303,717	6,819,605	3,515,888	(²)
1919.....	33	2,177	2,896,453	7,228,350	13,679,584	6,451,234	9,710
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	(³)	24.6	23.8	19.1	14.2	10.5	1.4
1923-1925.....	(³)	-24.5	-21.0	-44.2	-28.8	-9.7	12.1
1923-1927.....	(³)	-5.9	-2.1	-33.5	-18.7	-2	13.7
1919-1927.....	(³)	-36.3	-31.6	-58.4	-51.2	-43.4	-18.3

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing date for individual establishments. Certain of the "Other States," however, reported larger values of products than one of the States shown separately]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	25	1,581	7	188	1,386	7,935
California.....	3	121	1	12	108	806
Massachusetts.....	12	619	4	47	568	3,889
Other States ¹	10	841	2	129	710	3,240

State	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$491,440	\$1,981,774	\$2,725,149	\$284,807	\$6,661,994	\$3,652,038
California.....	26,170	131,102	34,131	15,090	289,183	239,962
Massachusetts.....	156,082	858,615	510,846	177,648	2,069,325	1,350,831
Other States ¹	309,188	992,057	2,180,172	92,069	4,303,486	2,031,245

¹ Connecticut, 1 establishment; Illinois, 4; New Jersey, 1; New York, 1; Pennsylvania, 2; Rhode Island, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

WOOL SHODDY

[A preliminary report for this industry was issued under date of November 8, 1928]

Description of the industry.—This industry consists in the recovery of wool fiber from rags, waste, noils, tailors' clippings, etc. The products are termed "shoddy," "mungo," "flocks" (the result of shearing cloth), and "wool extract." The recovered fiber may be used alone or mixed with new material for various textile purposes.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

¶ Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	55	1,679	\$1,916,195	\$7,980,875	\$12,596,726	\$4,615,851	15,353
1925-----	68	2,218	2,609,261	14,912,456	21,021,882	6,109,426	15,435
1923-----	59	2,128	2,442,522	10,627,386	16,697,515	6,070,129	12,496
1921-----	53	1,170	1,256,249	4,479,956	6,803,118	2,323,162	(²)
1919-----	78	2,566	2,653,169	16,076,315	23,254,398	7,178,083	16,567
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	(³)	-24.3	-26.6	-46.5	-40.1	-24.4	-0.5
1923-1925-----	(³)	4.2	6.8	40.3	25.9	.6	23.5
1923-1927-----	(³)	-21.1	-21.5	-24.9	-24.6	-24.0	22.9
1919-1927-----	(³)	-34.6	-27.8	-50.4	-45.8	-35.7	-7.3

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Not shown where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	468	Horse-power 15,353	424	Horse-power 15,435	342	Horse-power 12,496
Steam engines-----	25	4,245	30	4,348	34	4,917
Steam turbines-----	3	900	5	955		
Internal-combustion engines-----						
Water wheels and turbines-----	25	1,767	32	2,284	2	75
Electric motors driven by purchased current-----	415	8,441	357	7,848	37	2,035
Electric motors, total-----	633	10,481	559	9,578	269	5,469
Driven by purchased current-----	415	8,441	357	7,848	435	7,999
Driven by current generated in establishment reporting-----	218	2,040	202	1,730	269	5,469
Electric generators-----	11	Kilowatts 1,335	12	Kilowatts 1,940	166	2,530
					(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—MATERIAL AND EQUIPMENT USED IN THE WOOL-SHODDY INDUSTRY:
1927, 1925, AND 1919

[No data for materials or equipment tabulated for 1923 and 1921]

CLASS	1927	1925	1919
MATERIALS			
Rags, clippings, etc.....	<i>Pounds</i> 50, 671, 525	<i>Pounds</i> 60, 352, 123	<i>Pounds</i> 63, 244, 868
Wool and other noils and waste.....	1, 747, 129	16, 705, 572	12, 361, 895
Recovered wool fiber.....			394, 546
Wool (in condition in which purchased).....	75, 567	160, 775	181, 052
Equivalent of above in scoured condition.....	75, 567	160, 775	181, 052
EQUIPMENT			
Cards (sets).....	<i>Number</i> 442	<i>Number</i> 536	<i>Number</i> 554
Pickers.....	270	307	337
Garnett machines.....	113	149	157

TABLE 4.—PRODUCTS, BY QUANTITY AND VALUE, FOR THE UNITED STATES: 1921
TO 1927

PRODUCT	1927	1925	1923	1921
Total value.....	¹ \$12, 596, 726	¹ \$21, 021, 882	¹ \$16, 697, 515	\$6, 803, 118
Recovered wool fiber: ²				
Pounds.....	40, 823, 323	67, 543, 476	55, 050, 968	27, 314, 147
Value.....	\$10, 709, 485	\$19, 050, 866	\$13, 678, 894	\$5, 943, 745
Other products, value.....	\$524, 007	\$724, 257	\$1, 900, 969	\$379, 402
Amount received for contract work.....	\$1, 363, 234	\$1, 240, 759	\$1, 117, 652	\$479, 971

¹ In addition, wool shoddy to the following values was reported as a secondary product by establishments classified in other industries: For 1927, \$27,921; for 1925, \$144,493; for 1923, \$347,345.

² Includes carbonized rags (wool extract).

TABLE 5.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num-ber of estab-lish-ments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Pro- pri- etors and firm mem- bers	Sal- aried officers and employ- ees	Wage earners (average for the year)	
United States.....	55	1,950	35	236	1,679	15,353
Connecticut.....	3	174	2	19	153	2,131
Massachusetts.....	24	572	10	70	492	4,585
New York.....	7	213	2	28	183	2,812
Ohio.....	3	392		35	357	1,440
Pennsylvania.....	7	135	12	26	97	984
Rhode Island.....	3	29	1	6	22	293
Other States ¹	8	435	8	52	375	3,158

STATE	Salaries	Wages	Cost of materials, sup- plies, fuel, and power		Value of products	Value added by manufac- ture ²
			Materials and supplies	Fuel and power		
United States.....	\$819,350	\$1,916,195	\$7,534,653	\$446,222	\$12,596,726	\$4,615,851
Connecticut.....	44,607	175,293	857,090	22,539	1,199,872	320,243
Massachusetts.....	243,999	607,286	1,413,083	168,287	2,901,059	1,319,689
New York.....	137,041	236,947	1,303,719	44,909	1,913,590	564,962
Ohio.....	144,126	397,193	775,883	56,358	1,724,031	891,790
Pennsylvania.....	70,232	127,437	1,003,447	26,609	1,591,527	501,471
Rhode Island.....	24,590	32,758	110,067	14,055	196,691	72,569
Other States ¹	154,755	339,276	2,011,364	113,465	3,069,956	945,127

¹ Illinois, 1 establishment; Maine, 2; New Jersey, 2; Vermont, 2; Wisconsin, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

MONTHLY STATISTICS ON WOOL MACHINERY AND WOOL CONSUMED BY MANUFACTURERS

The Bureau of the Census makes monthly collections of data in regard to activity of machinery and wool consumption in important wool-manufacturing establishments. The statistics for the biennial-census years compiled by totalizing the figures for the several months of those years differ more or less from the corresponding biennial-census statistics, the reasons for these differences being as follows:

1. The biennial report, which provides an index of the trend of the industries over a series of census years, covers all establishments in the wool-manufactures group, whereas the monthly figures, which show the current trend from month to month, are compiled from data supplied by important establishments representing the major part, but not the whole, of these industries.

2. The biennial report covers only the wool-manufactures industries proper, while the monthly statistics include data for these industries and also for some establishments in the knit-goods, cotton-goods, silk-goods, rag-carpets-and-rugs, and wool-shoddy industries. The monthly report on machinery also includes statistics on the total machine and spindle hours for the month.

TABLE 1.—WOOL CONSUMED BY MANUFACTURERS—SUMMARY OF MONTHLY STATISTICS, BY YEARS: 1922 TO 1928

[Compiled from monthly reports received from an average of 550 mills for 1923, 574 for 1927, 586 for 1926, 602 for 1925, 629 for 1924, and 663 for 1928, respectively. The numbers of mills which reported for earlier years were not recorded. These statistics do not include data for one large and several small establishments]

[All quantities in thousands of pounds]

	1928	1927	1926	1925	1924	1923	1922
Total.....	465,018	477,118	438,356	450,021	460,402	550,878	555,777
Domestic, total.....	271,215	257,104	200,662	213,134	230,323	194,907	312,728
Grease.....	203,760	190,029	142,311	150,784	168,443	128,982	237,117
Scoured.....	47,063	48,063	42,620	47,112	46,521	49,557	56,156
Pulled.....	20,392	19,012	15,731	15,238	15,359	16,368	19,455
Foreign, total.....	193,803	220,014	237,694	236,887	230,079	355,971	243,049
Grease.....	167,664	192,997	203,185	205,071	199,234	312,056	206,093
Scoured.....	16,143	16,505	18,465	20,202	23,154	31,617	28,832
Pulled.....	9,996	10,512	16,044	11,614	7,691	12,298	8,124
Total, reduced to grease equivalent ¹	538,354	551,528	510,033	526,285	537,760	641,607	649,958
Domestic.....	325,075	311,505	248,525	265,326	281,964	249,920	375,369
Foreign.....	213,279	240,023	261,508	260,959	255,796	391,687	274,589
Combing, total.....	249,012	267,295	244,984	237,802	250,351	301,831	318,904
Grease.....	229,628	249,156	226,305	219,877	234,596	281,032	297,205
Scoured.....	8,935	7,949	8,837	10,092	9,212	10,820	11,130
Pulled.....	10,449	10,190	9,842	7,893	6,543	9,979	10,569
Clothing, total.....	80,180	80,905	74,344	80,349	86,547	99,384	113,311
Grease.....	20,358	18,601	17,380	17,092	18,992	24,560	35,095
Scoured.....	48,191	51,726	47,945	53,289	56,807	64,430	66,891
Pulled.....	11,631	10,578	9,019	9,968	10,748	10,394	11,825
Carpet, total.....	135,827	128,918	119,028	131,810	123,504	149,663	122,834
Grease.....	121,438	115,269	101,811	118,886	114,089	135,446	110,458
Scoured.....	6,081	4,894	4,303	3,933	3,656	5,924	6,696
Pulled.....	8,308	8,755	12,914	8,991	5,759	8,293	5,680
Grade not stated, total.....							728
Grease.....							452
Scoured.....							271
Pulled.....							5

¹ In computing the grease equivalent, 1 pound of scoured wool is considered as equivalent to 2 pounds in the grease, and 1 pound of pulled wool as equivalent to 1½ pounds in the grease.

TABLE 2.—ACTIVE AND IDLE WOOL MACHINERY—SUMMARY OF MONTHLY STATISTICS, BY YEARS: 1922 TO 1928

[Based on reports received from an average of 1,070, 1,082, 1,104, 1,098, 1,084, 1,134, and 1,108 mills, respectively, for the years 1928, 1927, 1926, 1925, 1924, 1923, and 1922]

YEARLY AVERAGE	LOOMS			Sets of cards	Combs	SPINNING SPINDLES								
	Wider than 50-inch reed space	50-inch reed space or less	Carpet and rug			Woolen	Worsted							
Average total, 1928.....	57,842	14,866	9,803	¹ 6,856	2,675	2,249,896	2,544,193							
In operation.....	32,618	9,256	6,489	5,165	1,777	1,646,989	1,558,039							
Idle.....	25,224	5,610	3,314	1,691	898	602,907	986,154							
Average total, 1927.....	60,669	16,336	9,706	¹ 6,945	2,678	2,268,939	2,602,387							
In operation.....	36,229	10,898	6,434	5,255	1,909	1,669,813	1,756,707							
Idle.....	24,440	5,438	3,272	1,690	769	599,126	845,680							
Average total, 1926.....	61,025	16,978	9,606	¹ 7,069	2,676	2,305,539	2,602,572							
In operation.....	37,719	11,410	6,562	5,349	1,909	1,662,008	1,813,345							
Idle.....	23,306	5,568	3,044	1,720	767	643,531	789,227							
Average total, 1925.....	60,431	17,323	9,669	¹ 7,050	2,678	2,291,094	2,628,914							
In operation.....	41,658	12,500	7,246	5,717	1,917	1,812,925	1,805,532							
Idle.....	18,773	4,823	2,423	1,333	761	478,169	823,382							
Average total, 1924.....	60,856	17,295	9,423	¹ 6,944	2,658	2,282,770	2,606,513							
In operation.....	42,310	13,258	7,037	5,683	1,960	1,832,715	1,807,810							
Idle.....	18,546	4,037	2,386	1,261	698	450,055	798,703							
Average total, 1923.....	61,451	17,194	9,123	¹ 6,983	2,593	2,291,423	2,520,321							
In operation.....	49,654	14,265	7,853	6,122	2,127	1,965,637	2,210,034							
Idle.....	11,797	2,929	1,270	861	466	325,786	310,287							
Average total, 1922.....	63,102	18,181	9,073	¹ 7,039	2,583	2,314,699	2,488,425							
In operation.....	43,431	13,125	7,282	5,910	2,038	1,917,525	1,938,129							
Idle.....	19,671	5,056	1,791	1,129	545	397,174	550,296							
PER CENT OF TOTAL NUMBER OF MACHINES														
	Active	Idle	Active	Idle	Active	Idle	Active	Idle	Active	Idle	Active	Idle		
Average:														
1928.....	56.4	43.6	62.3	37.7	66.2	33.8	75.3	24.7	66.4	33.6	73.2	26.8	61.2	38.8
1927.....	59.7	40.3	66.7	33.3	66.3	33.7	75.7	24.3	71.3	28.7	73.6	26.4	67.5	32.5
1926.....	61.8	38.2	67.2	32.8	68.3	31.7	75.7	24.3	71.3	28.7	72.1	27.9	69.7	30.3
1925.....	68.9	31.1	72.2	27.8	74.9	25.1	81.1	18.9	71.6	28.4	79.1	20.9	68.7	31.3
1924.....	69.5	30.5	76.7	23.3	74.7	25.3	81.8	18.2	73.7	26.3	80.3	19.7	69.4	30.6
1923.....	80.8	19.2	83.0	17.0	86.1	13.9	87.7	12.3	82.0	18.0	85.8	14.2	87.7	12.3
1922.....	68.8	31.2	72.2	27.8	80.3	19.7	84.0	16.0	78.9	21.1	82.8	17.2	77.9	22.1

¹ Includes data for shoddy cards but not for worsted cards.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED
BY SEPARATE REPORTS, BY STATES

[This table presents summary statistics for the industries in Group 2 other than those for which separate reports are given on pp. 208-454. More detailed statistics for 1927 are given, for the United States as a whole, in Table II, p. 1316; and summaries for States and large cities, carrying statistics for these industries, in comparison with those for other industries, appear in Tables III and IV, pp. 1330 and 1416. See "General explanations," pp. 3-12; in particular, "Limitation of statistics to establishments reporting products valued at \$5,000 or more," p. 6, "Power equipment," p. 7, "Cost of materials," etc., p. 8, "Value added by manufacture," p. 9, and "State and city statistics," p. 11.]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
AWNINGS, TENTS, SAILS, AND CANVAS COVERS							
<i>(Principal products: Window, store, and veranda awnings; tents; sails; tarpaulins; canvas covers for trucks, furniture, etc. Small establishments manufacturing these goods to individual order are not included.)</i>							
<i>United States</i>							
1927	963	6,543	\$8,229,362	\$24,409,718	147,929,352	\$23,519,634	4,850
1925	905	6,249	7,500,561	27,453,156	148,568,984	21,115,828	4,564
1923	814	5,958	6,922,938	25,229,222	145,275,756	20,040,534	4,728
1921	709	5,070	5,930,577	21,327,125	137,011,718	15,684,593	(¹)
1919	895	6,028	5,858,523	26,961,140	145,690,390	18,729,250	4,571
<i>States, 1927</i>							
Alabama	5	16	20,188	93,354	158,724	65,370	14
California	76	401	585,468	1,930,331	3,592,553	1,662,222	275
Colorado	10	156	157,495	606,719	1,094,042	487,323	117
Connecticut	26	91	106,515	183,442	479,179	295,737	106
District of Columbia	8	73	112,925	104,104	355,282	251,178	16
Florida	21	104	137,792	238,024	660,394	422,370	154
Georgia	8	107	85,642	327,220	581,682	254,462	422
Idaho	3	14	30,133	42,456	131,000	88,544	6
Illinois	61	496	725,642	1,988,364	3,853,811	1,865,447	287
Indiana	23	169	219,519	635,805	1,279,072	643,267	115
Iowa	12	56	73,870	161,837	338,507	176,670	72
Kansas	11	80	96,262	319,387	706,398	387,011	45
Kentucky	7	57	54,006	143,833	292,146	148,313	106
Louisiana	7	74	83,506	450,587	784,746	334,149	35
Maine	7	21	24,395	60,806	136,014	75,208	12
Maryland	19	60	87,845	205,089	460,061	254,372	38
Massachusetts	64	324	453,418	895,435	2,070,291	1,174,856	185
Michigan	34	264	379,077	996,354	2,063,702	1,067,348	159
Minnesota	15	108	132,768	350,368	699,072	348,704	75
Missouri	37	505	519,131	1,934,877	3,408,756	1,473,879	196
Nebraska	9	79	71,344	229,955	474,702	244,747	46
New Jersey	60	247	293,837	615,745	1,432,642	816,897	146
New York	178	954	1,483,163	3,730,105	7,971,248	4,241,143	626
North Carolina	5	11	12,489	78,800	144,105	65,605	25
Ohio	48	768	904,354	2,971,830	5,515,049	2,543,219	646
Oklahoma	10	47	51,293	149,321	296,907	147,586	73
Oregon	6	48	52,829	178,976	344,015	165,039	26
Pennsylvania	83	397	462,916	1,370,659	2,677,471	1,306,812	274
Rhode Island	6	29	32,223	79,745	215,295	135,550	21
Tennessee	9	45	48,780	203,307	400,898	197,861	23
Texas	23	360	287,579	1,445,963	2,691,945	845,982	217
Utah	4	10	12,472	69,691	94,859	25,168	16
Virginia	14	68	78,856	182,553	388,363	205,810	50
Washington	13	83	109,630	505,523	841,856	336,333	67
West Virginia	4	15	20,055	46,113	111,459	65,346	15
Wisconsin	22	133	152,102	402,051	888,990	486,989	91
Other States ¹	15	70	68,173	480,949	694,116	213,167	53

¹ Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of awnings, tents, sails, and canvas covers: 1927, \$2,878,514; 1925, \$2,742,563; corresponding amounts for earlier years not calculated. Does not include the following values of awnings, tents, sails, and canvas covers made as secondary products by establishments classified in other industries: 1927, \$1,643,483; 1925, \$1,743,831; 1923, \$1,409,439; 1921, \$1,928,266; 1919, \$2,302,007.

² Not called for on schedule.

³ Arizona, 1 establishment; Arkansas, 3; Montana, 1; New Hampshire, 2; North Dakota, 1, South Carolina, 1; South Dakota, 2; Vermont, 2; Wyoming, 2.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
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BAGS, OTHER THAN PAPER, NOT MADE IN TEXTILE MILLS

[Principal products: Mainly jute and canvas bags for mail, coal, cement, grain, flour, meal, money, etc.; bags for use by carpenters, newsboys, and fruit pickers; individual tea-service bags, etc. This industry does not include the manufacture of bags made and used by the same establishment as containers for flour, tobacco, cement, or other commodities manufactured by these establishments. The production of bags in cotton mills is shown in the report for the cotton-goods industry (Table 9, p. 238)]

<i>United States</i>							
1927.....	181	11, 164	\$9, 548, 317	\$136, 748, 406	¹ \$162, 949, 837	\$26, 201, 431	15, 754
1925.....	162	11, 404	9, 331, 815	150, 102, 277	¹ 175, 081, 911	24, 979, 634	15, 295
1923.....	169	11, 548	9, 360, 999	128, 221, 603	¹ 151, 675, 727	23, 454, 124	13, 852
1921.....	169	10, 324	8, 031, 523	99, 437, 815	¹ 115, 452, 413	16, 014, 598	(²)
1919.....	216	10, 756	7, 756, 582	176, 017, 560	¹ 214, 059, 474	38, 041, 914	9, 076
<i>States, 1927</i>							
California.....	8	680	659, 723	8, 485, 842	10, 358, 682	1, 872, 840	866
Florida.....	3	48	36, 890	364, 471	525, 849	161, 378	64
Illinois.....	16	382	353, 761	5, 366, 759	6, 397, 779	1, 031, 020	598
Louisiana.....	6	1, 191	793, 254	13, 058, 577	15, 217, 921	2, 159, 344	981
Maryland.....	6	111	85, 910	1, 434, 045	1, 619, 518	185, 473	129
Massachusetts.....	5	44	47, 985	541, 012	700, 500	159, 488	48
Minnesota.....	5	575	587, 490	9, 542, 166	11, 397, 118	1, 854, 952	1, 037
Missouri.....	12	1, 289	1, 173, 401	16, 538, 945	19, 548, 517	3, 009, 572	1, 570
New Jersey.....	7	183	162, 894	2, 061, 777	2, 450, 487	388, 710	214
New York.....	38	2, 062	2, 144, 243	23, 567, 457	28, 653, 016	5, 085, 559	3, 465
Ohio.....	11	328	322, 380	3, 523, 720	4, 516, 174	992, 454	307
Pennsylvania.....	12	326	287, 993	3, 753, 093	4, 589, 737	836, 644	220
Tennessee.....	6	824	978, 014	9, 544, 878	10, 874, 085	1, 329, 207	914
Texas.....	9	538	360, 765	6, 986, 052	7, 934, 286	948, 244	462
Virginia.....	9	316	191, 546	3, 195, 338	3, 765, 512	570, 174	296
Other States ³	28	2, 267	1, 762, 068	28, 784, 274	34, 400, 646	5, 616, 372	4, 594

¹ Includes values of miscellaneous products normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of bags, other than paper bags: 1927, \$1,933,037; 1925, \$2,769,916; corresponding amounts for earlier years not calculated. Does not include the following values of bags, other than paper bags, made as secondary products by establishments classified in other industries: 1927, \$5,603,593; 1925, \$5,337,193; 1923, \$6,767,195; 1921, \$3,880,973. Of these amounts, bags reported by cotton mills, "made from fabrics woven by same establishment," were valued as follows: 1927, \$3,271,207; 1925, \$3,383,670; 1923, \$5,863,923; 1921, \$2,688,870. No comparable data for 1919.

² Not called for on schedule.

³ Alabama, 2 establishments; Connecticut, 2; Georgia, 3; Indiana, 2; Kansas, 1; Kentucky, 1; Michigan, 1; Nebraska, 1; North Carolina, 1; Oklahoma, 1; Oregon, 3; Rhode Island, 1; South Carolina, 2; Utah, 1; Washington, 2; Wisconsin, 4.

BELTING, OTHER THAN LEATHER AND RUBBER, MADE FROM PURCHASED FABRICS

[Principal products: Cotton and canvas belting, both sewed and endless; balata belting, weather-proof belting. This industry formerly included the manufacture of belting from materials woven in the same establishments, but such establishments are now treated as textile mills and classified in the "Cotton small wares" industry. For this reason no comparable statistics can be given for years prior to 1923]

<i>United States</i>							
1927.....	11	343	\$410, 698	\$1, 489, 841	¹ \$3, 211, 875	\$1, 722, 034	1, 457
1925.....	11	254	264, 246	1, 595, 602	¹ 3, 111, 500	1, 515, 898	914
1923.....	13	335	350, 736	1, 674, 041	¹ 3, 311, 527	1, 637, 486	930
<i>States, 1927</i>							
Pennsylvania.....	4	215	250, 848	857, 680	1, 629, 579	771, 899	857
Other States ¹	7	128	159, 850	632, 161	1, 582, 296	950, 135	600

¹ Does not include the following values of belting, other than leather and rubber, made from purchased fabrics reported as secondary products by establishments classified in other industries: 1927, \$700,582; 1925, \$471,989; 1923, \$192,690. Because of a change in the classification of this industry, no comparable data for years prior to 1923 can be presented.

² Illinois, 1 establishment; Maryland, 3; Minnesota, 1; New Jersey, 1; Ohio, 1.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages ¹	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
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CARPETS AND RUGS, RAG

[Principal products: Rag and fluff carpets and rugs made from materials obtained from old carpets and rugs, and to some extent from cotton yarns, cut rags, and mill ends. The value of products shown for this industry consists in part of the actual value of carpets and rugs manufactured from materials owned by the same establishment and in part of the amounts received for work done on a contract basis on materials owned by others]

<i>United States</i>							
1927.....	110	1,633	\$1,677,572	\$1,636,371	\$5,890,265	\$4,253,894	2,005
1925.....	139	1,901	1,875,750	1,942,334	5,709,812	3,767,478	2,349
1923.....	151	2,041	1,856,701	2,095,167	6,097,441	4,002,274	2,587
1921.....	149	1,576	1,440,407	1,639,171	4,860,405	3,221,234	(1)
1919.....	339	2,016	1,550,501	2,037,874	5,597,057	3,559,183	2,659
<i>States, 1927</i>							
California.....	9	63	80,784	40,109	261,527	221,418	105
Indiana.....	3	12	12,729	3,595	39,327	35,732	33
Kansas.....	3	14	16,766	17,789	48,645	30,856	23
Maine.....	5	77	57,368	60,268	217,858	157,590	71
Massachusetts.....	12	74	57,585	46,098	172,866	126,768	156
Michigan.....	4	12	8,758	10,325	44,909	34,584	24
Minnesota.....	4	28	23,388	21,159	108,055	86,896	48
New Jersey.....	7	97	87,757	106,860	271,454	165,094	73
New York.....	12	133	152,346	157,734	573,235	415,501	199
Ohio.....	6	52	43,486	16,778	111,685	94,907	73
Oregon.....	4	14	12,512	5,020	31,376	20,356	38
Pennsylvania.....	11	402	295,033	460,774	1,242,279	781,505	402
Washington.....	5	9	10,835	6,726	33,595	26,869	42
Wisconsin.....	3	26	26,362	9,191	56,432	47,241	30
Other States ²	22	620	791,863	674,445	2,677,022	2,002,577	688

¹ Not called for on schedule.² Colorado, 2 establishments; Connecticut, 2; Illinois, 5; Iowa, 3; Kentucky, 2; Maryland, 1; Mississippi, 1; Missouri, 2; Nebraska, 1; New Hampshire, 1; Rhode Island, 1; South Dakota, 1.

CLOTH SPONGING AND REFINISHING

[The sponging and refinishing of woolen cloth on contract. The value of products shown represents merely the amount received for work done. Many of the establishments engaged in the manufacture of clothing do their own sponging and refinishing, but the operations of such establishments are not included in this industry]

<i>United States</i>							
1927.....	52	736	\$1,502,111	\$160,779	\$3,457,938	\$3,297,159	933
1925.....	61	931	1,889,118	203,429	3,885,852	3,685,423	975
1923.....	65	1,225	2,208,596	298,263	4,651,730	4,353,473	911
1921.....	65	1,123	1,769,597	264,900	4,101,084	3,836,784	(1)
1919.....	67	1,206	1,564,661	178,161	3,690,858	3,512,697	927
<i>States, 1927</i>							
Maryland.....	3	42	83,249	13,223	176,871	163,648	143
Massachusetts.....	4	43	64,133	7,953	150,915	142,857	104
New York.....	29	458	1,065,417	111,108	2,439,671	2,328,563	521
Ohio.....	5	67	96,012	14,868	273,034	258,166	66
Pennsylvania.....	5	71	92,130	7,902	188,901	180,999	75
Other States ²	6	55	101,164	5,720	228,546	222,826	24

¹ Not called for on schedule.² Illinois, 2 establishments; Kentucky, 1; Michigan, 1; Missouri, 1.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
FLAGS AND BANNERS							
<i>[Principal products: Flags, banners, pennants, etc., made from bunting, cotton felt, leather, silk, and other materials]</i>							
<i>United States</i>							
1927.....	46	1,046	\$397,906	\$2,282,456	¹ \$4,536,348	\$2,253,892	700
1925.....	49	1,031	890,423	2,332,222	¹ 4,588,111	2,255,889	629
1923.....	52	878	758,485	2,024,130	¹ 3,807,308	1,783,178	748
1921.....	57	991	776,931	1,850,333	¹ 3,636,990	1,786,657	(²)
1919.....	79	1,065	795,242	3,286,165	¹ 6,346,089	2,059,924	778
<i>States, 1927</i>							
California.....	6	39	42,014	100,750	251,342	150,592	32
Illinois.....	4	86	83,084	155,626	367,954	212,328	29
New York.....	14	290	269,972	667,374	1,259,158	591,784	100
Ohio.....	5	99	88,982	139,795	353,259	213,464	318
Pennsylvania.....	6	308	218,398	712,889	1,355,834	642,945	114
Other States ³	11	224	195,456	506,022	948,801	442,779	107

¹ Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of flags and banners: 1927, \$318,373; 1925, \$339,978; corresponding amounts for earlier years not calculated. Does not include the following values of flags and banners made as secondary products by establishments classified in other industries: 1927, \$305,468; 1925, \$349,597; 1923, \$345,467; 1921, \$154,134; 1919, \$503,806.

² Not called for on schedule.

³ Iowa, 2 establishments; Massachusetts, 2; Michigan, 1; Missouri, 1; New Jersey, 1; Vermont, 1; Virginia, 2; Washington, 1.

HORSE BLANKETS, FLY NETS, AND RELATED PRODUCTS

[Principal products: Horse blankets, saddlecloths, and breast aprons made from purchased fabrics; cotton and leather fly nets, sweat pads, etc. This industry does not include the manufacture of horse blankets, saddlecloths, and breast aprons from fabrics woven by the same establishments, such establishments being treated as textile mills and classified in the appropriate textile industries]

<i>United States</i>							
1927.....	16	660	\$574,177	\$1,877,896	¹ \$3,379,105	\$1,501,209	1,421
1925.....	20	694	564,061	2,535,217	¹ 3,896,918	1,361,701	1,773
1923.....	22	841	609,555	2,773,844	¹ 5,136,544	2,362,700	2,900
1921.....	27	705	682,175	2,677,487	¹ 3,834,586	1,157,099	(²)
1919.....	28	766	551,278	3,455,686	¹ 6,020,612	2,564,926	1,577
<i>States, 1927</i>							
New York.....	5	84	97,257	239,653	464,473	224,820	30
Pennsylvania.....	3	80	57,460	234,834	370,575	135,741	98
Wisconsin.....	5	210	162,360	546,585	1,036,269	489,684	234
Other States ³	3	286	257,100	856,824	1,507,788	650,964	1,059

¹ Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of horse blankets, fly nets, and related products: 1927, \$241,650; 1925, \$647,238; corresponding amounts for earlier years not calculated. Does not include the following values of horse blankets, fly nets, and related products made as secondary products by establishments classified in other industries: 1927, \$1,298,600; 1925, \$986,226; 1923, \$1,600,057; 1921, \$1,350,786; 1919, \$2,922,684. Of these amounts, horse blankets to the following values were reported by woolen and worsted mills: 1927, \$831,014; 1925, \$786,560; 1923, \$1,338,551; 1921, \$1,173,058; 1919, \$1,606,417.

² Not called for on schedule.

³ Ohio, 2 establishments; Rhode Island, 1.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
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HOUSE-FURNISHING GOODS, NOT ELSEWHERE CLASSIFIED

[See "House-furnishing goods, not elsewhere classified—Products, by class and value, for selected States: 1927," p. 461]

[Principal products: Comfortables and quilts, bed spreads and bed sets, sheets and pillow cases, table cloths, lunch cloths, napkins, table and dresser covers and scarfs, curtains and draperies, feather pillows and feather beds, cushions and hassocks, and mops and dusters]

<i>United States</i>							
1927-----	548	11,691	\$10,947,259	\$52,704,736	\$87,676,606	\$34,971,870	12,997
1925-----	433	9,307	9,142,570	51,078,800	78,654,563	27,575,763	10,702
1923-----	452	8,708	8,454,350	44,666,898	69,333,182	24,666,284	9,969
1921-----	419	7,504	6,955,472	35,106,227	54,550,787	19,444,560	(1)
1919-----	467	7,853	6,443,915	39,793,962	60,211,804	20,417,842	11,857
<i>States, 1927</i>							
California-----	35	301	348,651	1,203,581	2,276,480	1,072,899	624
Connecticut-----	8	806	696,459	3,018,301	4,940,384	1,922,083	2,149
Illinois-----	66	1,050	962,818	5,815,130	9,725,391	3,910,261	1,738
Indiana-----	4	45	27,591	63,670	149,631	85,961	8
Louisiana-----	4	70	39,411	213,479	399,113	185,634	81
Maryland-----	5	103	73,794	406,916	644,850	237,934	97
Massachusetts-----	62	1,422	1,193,089	6,443,329	10,743,327	4,299,998	488
Michigan-----	10	365	427,467	1,121,462	2,744,821	1,623,359	887
Minnesota-----	7	59	59,522	150,428	356,860	206,432	56
Missouri-----	22	232	184,989	1,059,070	1,713,853	654,783	382
New Jersey-----	16	701	648,260	2,030,090	3,835,951	1,805,861	838
New York-----	200	4,248	4,595,747	24,693,015	38,788,649	14,095,634	3,022
Ohio-----	23	310	318,726	1,588,099	2,783,348	1,195,249	879
Pennsylvania-----	44	742	757,078	3,029,940	5,122,153	2,092,213	998
Rhode Island-----	5	57	43,036	137,401	221,571	84,170	14
Washington-----	5	26	28,143	44,282	116,736	72,454	45
Wisconsin-----	8	178	167,354	426,428	803,336	376,908	162
Other States ¹ -----	24	976	375,124	1,260,115	2,310,152	1,050,037	529

¹ Not called for on schedule.¹ Alabama, 1 establishment; Colorado, 1; Georgia, 3; Iowa, 2; Kansas, 1; Kentucky, 2; Nebraska, 1; New Hampshire, 2; North Carolina, 1; Oklahoma, 2; Oregon, 1; Tennessee, 3; Texas, 2; Virginia, 2.

NETS AND SEINES

[Principal products: Fish nets and netting, seines, and laundry nets]

<i>United States¹</i>							
1927-----	² 21	869	776,326	\$3,347,719	³ \$5,401,173	\$2,053,454	1,162
1925-----	21	885	762,489	3,478,993	³ 5,157,491	1,678,498	1,190
1923-----	17	882	749,482	3,157,327	³ 4,627,692	1,470,365	1,082
1921-----	15	705	495,015	1,945,749	³ 3,015,865	1,070,116	(4)
1919-----	19	859	561,282	3,648,206	³ 5,114,414	1,466,208	959

¹ Statistics for States can not be shown without disclosing data for individual establishments.¹ Connecticut, 3 establishments; Georgia, 1; Illinois, 3; Maryland, 2; Massachusetts, 3; Missouri, 1; New Jersey, 3; New York, 1; Ohio, 1; Pennsylvania, 1; Rhode Island, 1; Wisconsin, 1.¹ Does not include the following values of nets and seines made as secondary products by establishments classified in other industries: 1927, \$373,072; 1925, \$559,645; 1923, \$63,706; 1921, \$65,590. No comparable data for 1919.¹ Not called for on schedule.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
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REGALIA, BADGES, AND EMBLEMS

[Principal products: Robes, costumes, badges, lodge paraphernalia, church vestments, religious medals, printed ribbons, etc., for use by military, naval, fraternal, and religious organizations]

<i>United States</i>							
1927-----	76	1, 675	\$1, 760, 438	\$3, 018, 948	¹ \$7, 691, 253	\$4, 672, 305	1, 015
1925-----	85	1, 992	2, 032, 832	3, 962, 261	¹ 9, 623, 018	5, 660, 757	1, 068
1923-----	84	2, 146	2, 090, 012	4, 242, 715	¹ 10, 585, 846	6, 343, 131	1, 160
1921-----	81	2, 204	2, 048, 356	4, 422, 824	¹ 10, 359, 349	5, 936, 525	(²)
1919-----	115	2, 223	1, 800, 383	4, 287, 055	¹ 9, 395, 470	5, 108, 415	1, 321
<i>States, 1927</i>							
Illinois-----	12	152	192, 638	296, 204	765, 419	469, 215	81
Maryland-----	3	44	38, 991	56, 647	136, 051	79, 404	15
Massachusetts-----	9	91	99, 934	112, 260	306, 247	193, 987	105
Minnesota-----	3	50	51, 817	98, 697	259, 027	160, 330	18
Missouri-----	4	54	50, 179	87, 884	206, 526	148, 642	56
New Jersey-----	3	27	34, 003	46, 512	129, 595	83, 083	26
New York-----	17	204	239, 876	557, 441	1, 242, 209	684, 768	71
Ohio-----	6	626	630, 161	1, 144, 878	2, 839, 909	1, 695, 031	306
Pennsylvania-----	7	70	66, 505	147, 765	285, 015	137, 250	20
Other States ³ -----	12	357	356, 334	500, 660	1, 521, 255	1, 020, 595	317

¹ Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of regalia, badges, and emblems: 1927, \$589,524; 1925, \$656,355; corresponding amounts for earlier years not calculated. Does not include the following values of regalia, badges, and emblems made as secondary products by establishments classified in other industries: 1927, \$815,791; 1925, \$421,990; 1923, \$767,773; 1921, \$348,003; 1919, \$177,062.

² Not called for on schedule.

³ California, 3 establishments; Colorado, 1; District of Columbia, 1; Georgia, 1; Indiana, 1; Michigan, 2; Tennessee, 1; Texas, 1; Wisconsin, 1.

UPHOLSTERING MATERIALS, NOT ELSEWHERE CLASSIFIED

[Principal products: Curled hair and ginned moss. Some of the establishments in this industry also report such products as jute-fiber batting, sisal-fiber filling, palm-leaf fiber, carpet padding, gimps and binding for automobile upholstery, and tassels. This industry does not include the manufacture of upholstery fabrics, products of textile mills]

<i>United States</i>							
1927-----	39	1, 080	\$1, 162, 456	\$6, 556, 109	¹ \$9, 672, 806	\$3, 116, 697	4, 482
1925-----	34	1, 196	1, 174, 403	5, 122, 777	¹ 7, 997, 832	2, 875, 055	3, 380
1923-----	35	1, 248	1, 279, 830	4, 537, 787	¹ 7, 641, 279	3, 103, 492	2, 442
1921-----	35	740	685, 529	2, 687, 712	4, 081, 273	1, 393, 561	(²)
1919-----	51	1, 557	1, 379, 633	4, 794, 722	8, 694, 295	3, 899, 573	4, 338
<i>States, 1927</i>							
California-----	4	83	107, 127	498, 427	861, 160	362, 733	512
Louisiana-----	12	131	37, 260	651, 085	820, 525	169, 440	400
Michigan-----	3	158	216, 326	1, 171, 424	1, 538, 701	367, 277	722
Pennsylvania-----	5	270	297, 315	1, 581, 025	2, 334, 687	753, 662	852
Other States ³ -----	15	438	484, 428	2, 654, 148	4, 117, 733	1, 463, 585	1, 996

¹ Does not include the following values of upholstery materials, not elsewhere classified, made as secondary products by establishments classified in other industries: 1927, \$973,375; 1925, \$818,318; 1923, \$165,572.

² Not called for on schedule.

³ Connecticut, 1 establishment; Florida, 1; Illinois, 2; Indiana, 1; Maryland, 2; Massachusetts, 2; Minnesota, 2; New Jersey, 2; New York, 1; Ohio, 1.

SUMMARY FOR INDUSTRIES IN GROUP 2 WHICH ARE NOT COVERED BY SEPARATE
REPORTS, BY STATES—Continued

[See note at head of this table, p. 455]

HOUSE-FURNISHING GOODS, NOT ELSEWHERE CLASSIFIED—PRODUCTS, BY CLASS
AND VALUE, FOR SELECTED STATES: 1927

[See "House-furnishing goods," p. 459]

CLASS	United States	Illinois	Massachusetts	New York	Pennsylvania	Other States
1. House-furnishing goods, not elsewhere classified industry, all products, total value.....	\$87, 676, 606	\$9, 725, 391	\$10, 743, 327	\$38, 788, 649	\$5, 122, 153	\$23, 297, 086
2. House-furnishing goods, not elsewhere classified.....	84, 768, 802	9, 137, 376	10, 586, 541	38, 503, 684	4, 837, 566	21, 703, 635
3. Other products (not normally belonging to the industry)....	2, 907, 804	588, 015	156, 786	284, 965	284, 587	1, 593, 451
4. House-furnishing goods, not elsewhere classified, made as secondary products in other industries, value.....	11, 579, 834	2, 022, 099	1, 245, 704	2, 260, 015	1, 164, 057	4, 887, 959
House-furnishing goods, not elsewhere classified, all industries: Aggregate value (sum of 2 and 4).....	96, 348, 636	11, 159, 475	11, 832, 245	40, 763, 699	6, 001, 623	26, 591, 594
Comfortables and quilts.....	12, 071, 502	1, 054, 308	106, 875	3, 802, 862	1, 849, 383	5, 258, 074
Bedspreads and bed sets.....	3, 882, 972	457, 902	37, 791	2, 599, 806	326, 985	460, 488
Sheets and pillowcases.....	5, 686, 364	416, 814	-----	4, 975, 633	2, 763	291, 184
Tablecloths, lunch cloths, and napkins.....	2, 472, 510	25, 184	4, 800	2, 160, 871	3, 886	277, 769
Table and dresser covers and scarfs.....	4, 227, 782	513, 702	365, 224	3, 172, 104	1, 942	174, 810
Curtains and draperies.....	30, 963, 634	2, 676, 277	0, 588, 886	12, 243, 276	882, 425	5, 572, 770
Feather pillows and feather beds..	5, 865, 014	2, 106, 100	115, 683	617, 510	424, 441	2, 601, 280
Cushions and hassocks.....	3, 980, 096	540, 577	180, 972	1, 760, 682	189, 533	1, 308, 332
Mops and dusters.....	5, 730, 029	1, 519, 726	670, 095	682, 196	285, 635	2, 572, 377
Minor products, including amount received for contract work.....	21, 468, 733	1, 848, 885	761, 919	8, 748, 759	2, 034, 630	8, 074, 540

Group 3.—FOREST PRODUCTS

THE GROUP AS A WHOLE

This group, which comprises the industries engaged in the manufacture of lumber and of the various classes of products made from lumber, embraces practically all the industries in which wood in some form is the principal material. Among the products of some of these industries are articles made from other materials than lumber. For example, the furniture industry includes the manufacture of metal furniture and metal store and office fixtures. Considering the industry as a whole, however, wood is the principal material, and therefore it has been included in this group. The table below gives summary statistics for the group and its component industries.

On pages 465 to 537 are presented detailed reports for those industries for which data in regard to quantities and values of individual products or classes of products were collected. Following these reports are given descriptions and summary statistics for the remaining industries in this group (pp. 538 to 549).

SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1921 to 1927

INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
Total.....	1927	20,163	862,667	929,790	1,633,938	3,457,427	1,823,489	3,321,755
	1925	21,926	921,266	978,472	1,725,351	3,689,127	1,963,776	3,472,970
	1923	21,678	931,816	962,595	1,666,395	3,633,386	1,966,991	3,336,236
	1921	21,398	703,360	670,462	1,197,628	2,456,857	1,259,229	(²)
Basic industries.....	1927	8,723	453,131	431,496	508,680	1,259,370	750,690	1,795,875
	1925	10,286	497,803	473,085	593,935	1,468,427	874,492	2,064,681
	1923	10,671	531,545	492,617	584,802	1,534,991	950,188	1,944,962
	1921	10,233	392,756	323,977	386,881	930,015	543,134	(²)
Excelsior.....	1927	64	1,272	1,181	2,547	4,821	2,274	10,930
	1925	72	1,300	1,180	2,573	4,901	2,328	11,993
	1923	75	1,285	1,206	2,766	5,362	2,596	10,939
	1921	79	1,087	978	2,755	4,213	1,458	(²)
Lumber and timber prod- ucts, not elsewhere classified.	1927	7,510	413,946	413,362	493,959	1,214,646	720,687	1,781,734
	1925	9,207	467,090	456,716	579,475	1,421,162	841,687	2,049,500
	1923	9,393	495,932	475,962	573,064	1,494,462	921,898	1,932,091
	1921	9,092	364,247	313,487	377,927	902,501	524,574	(²)
Turpentine and rosin.....	1927	1,149	37,913	16,953	12,173	39,903	27,730	3,211
	1925	1,007	29,413	15,190	11,887	42,364	30,477	3,138
	1923	1,203	34,328	15,449	8,973	35,167	26,194	1,932
	1921	1,062	27,422	9,512	6,199	23,301	17,102	(²)
Wood-reworking indus- tries.	1927	5,389	113,824	145,542	351,547	653,934	302,388	706,207
	1925	5,527	127,519	164,482	431,397	778,051	346,654	659,953
	1923	4,963	120,239	151,573	430,991	762,017	331,026	553,302
	1921	5,118	91,924	110,717	298,050	518,386	220,336	(²)
Lasts and related prod- ucts.	1927	59	1,718	2,504	2,505	7,529	5,024	7,655
	1925	62	2,035	3,012	3,049	9,301	6,252	7,512
	1923	64	2,258	3,123	3,197	9,900	6,703	6,995
	1921	67	2,618	3,492	4,336	12,377	8,041	(²)
Planing-mill products, not made in planing mills connected with saw- mills.	1927	4,561	96,589	126,140	321,443	581,634	260,190	630,674
	1925	4,751	111,329	146,592	403,227	716,861	307,635	597,103
	1923	4,215	103,008	133,329	401,174	692,784	291,610	493,424
	1921	4,366	78,033	95,954	272,082	462,649	190,567	(²)
See footnotes at end of table.								

See footnotes at end of table.

SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1921 TO 1927—Continued

INDUSTRY	Census year	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
Wood-reworking industries—Continued.								
Window and door screens and weather strip.	1927	214	3,661	4,806	9,304	22,643	13,339	11,520
	1925	183	3,803	4,687	9,545	22,398	12,853	10,674
	1923	165	3,687	4,197	9,566	21,256	11,691	9,515
	1921	157	2,129	2,656	6,102	12,038	5,935	(?)
Wood, turned and shaped, not elsewhere classified.	1927	555	11,856	12,093	18,294	42,128	23,834	56,358
	1925	521	10,352	10,190	15,576	35,491	19,915	44,664
	1923	519	11,286	10,926	17,055	38,077	21,022	43,368
	1921	528	9,144	8,615	15,530	31,322	15,792	(?)
Wooden-container industries.	1927	1,648	56,124	52,721	134,471	235,578	101,107	192,489
	1925	1,762	57,961	55,671	142,775	249,612	106,837	192,281
	1923	1,872	62,121	58,271	154,804	265,501	110,696	200,457
	1921	1,872	51,923	45,796	125,865	204,779	78,914	(?)
Baskets and rattan and willow ware, not including furniture.	1927	236	9,295	6,608	9,231	21,729	12,498	17,821
	1925	230	6,808	5,033	6,758	16,658	9,900	12,794
	1923	215	5,838	4,453	6,119	14,713	8,594	11,474
	1921	198	4,795	3,651	5,230	11,241	6,011	(?)
Boxes, cigar, wooden-----	1927	136	4,577	3,925	5,621	12,909	7,288	5,478
	1925	155	4,836	3,967	5,450	12,925	7,474	5,210
	1923	170	5,101	4,171	6,249	14,796	8,547	6,054
	1921	171	4,657	3,728	6,778	14,317	7,539	(?)
Boxes, wooden, except cigar boxes.	1927	748	30,797	29,250	75,797	133,993	58,195	135,637
	1925	824	34,834	33,765	86,391	152,295	65,903	143,519
	1923	864	39,154	36,464	94,080	162,858	68,777	149,410
	1921	878	32,595	28,307	73,270	122,588	49,318	(?)
Cooperage-----	1927	528	11,455	12,937	43,821	66,947	23,126	33,553
	1925	553	11,483	12,908	44,176	67,735	23,559	30,758
	1923	623	12,028	13,183	48,356	73,134	24,778	33,519
	1921	625	9,876	10,109	40,586	56,633	16,047	(?)
Furniture and related industries.	1927	3,587	201,497	256,169	423,935	964,470	540,535	477,958
	1925	3,601	195,643	244,886	418,235	951,170	532,935	434,238
	1923	3,434	182,014	222,461	372,545	851,801	479,256	369,484
	1921	3,449	134,937	157,245	279,041	606,239	327,198	(?)
Billiard and pool tables, bowling alleys, and accessories.	1927	34	1,184	1,550	2,394	7,112	4,718	2,335
	1925	33	1,037	1,354	1,781	5,614	3,834	2,120
	1923	32	876	1,401	2,229	6,236	4,007	2,897
	1921	36	925	1,057	3,377	7,368	3,990	(?)
Furniture, including store and office fixtures. ⁴	1927	3,222	186,302	236,109	389,390	879,706	490,317	445,179
	1925	3,239	181,016	225,298	384,875	868,720	483,845	402,719
	1923	3,047	168,157	204,566	342,443	776,847	434,404	344,954
	1921	3,038	124,362	144,148	253,706	550,413	296,707	(?)
Mirror and picture frames.	1927	166	4,460	5,893	7,056	19,489	12,432	6,228
	1925	162	4,230	5,646	6,835	19,170	12,335	6,102
	1923	223	4,496	5,761	6,178	18,641	12,463	4,497
	1921	259	3,846	4,879	5,644	15,448	9,804	(?)
Refrigerators and refrigerator cabinets, exclusive of mechanical refrigerating equipment.	1927	165	9,551	12,617	25,095	58,163	33,068	24,216
	1925	167	9,360	12,589	24,744	57,666	32,922	23,297
	1923	132	8,485	10,733	21,695	50,076	28,382	17,136
	1921	116	5,804	7,161	16,314	33,010	16,697	(?)
Other allied products.---	1927	816	38,091	43,860	215,307	344,075	128,769	149,226
	1925	750	35,432	40,347	139,009	241,866	102,857	121,867
	1923	738	35,897	37,673	123,252	219,076	95,824	127,535
	1921	726	31,820	32,727	107,790	197,437	89,647	(?)
Caskets, coffins, burial cases, and morticians' goods.	1927	340	11,665	14,421	33,327	74,891	41,563	31,105
	1925	326	11,479	14,057	32,771	70,413	37,641	29,164
	1923	327	11,593	13,334	31,541	65,558	34,017	27,340
	1921	314	9,956	10,586	27,017	54,796	27,779	(?)

See footnotes at end of table.

SUMMARY FOR GROUP 3.—FOREST PRODUCTS: 1921 to 1927—Continued

INDUSTRY	Cen- sus year	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manu- facture	Horse- power
Other allied products— Continued.								
Cork products.....	1927	27	3, 185	3, 560	9, 395	17, 369	7, 974	11, 683
	1925	33	3, 297	3, 538	7, 269	16, 020	8, 752	11, 084
	1923	39	3, 478	3, 594	8, 046	15, 566	7, 521	10, 052
	1921	45	2, 774	2, 672	6, 773	12, 968	6, 194	(2)
Matches.....	1927	19	3, 905	4, 131	11, 884	24, 906	13, 022	17, 607
	1925	25	4, 627	4, 707	12, 913	23, 741	10, 828	16, 314
	1923	22	4, 712	4, 425	11, 786	23, 940	12, 154	15, 388
	1921	22	4, 530	4, 280	13, 240	30, 274	17, 034	(2)
Pulp goods.....	1927	44	2, 996	3, 783	11, 375	23, 950	12, 575	17, 158
	1925	35	3, 017	3, 767	10, 286	20, 270	9, 984	11, 338
	1923	40	3, 648	4, 090	11, 209	20, 436	9, 227	13, 605
	1921	60	4, 718	5, 622	16, 252	31, 213	14, 961	(2)
Rules, wood, metal, and other. ²	1923	11	219	218	239	759	520	714
	1921	11	188	162	138	534	396	(2)
Wood preserving.....	1927	193	12, 259	13, 726	141, 555	184, 558	43, 003	50, 606
	1925	131	8, 416	9, 606	66, 709	91, 184	24, 475	33, 521
	1923	103	6, 520	6, 878	50, 139	71, 083	20, 944	37, 998
	1921	78	4, 153	4, 502	34, 432	47, 422	12, 990	(2)
Wooden goods, not else- where classified.	1927	193	4, 081	4, 240	7, 770	18, 402	10, 632	21, 067
	1925	200	4, 596	4, 672	9, 060	20, 238	11, 177	20, 446
	1923	196	5, 727	5, 134	10, 292	21, 734	11, 441	22, 438
	1921	196	5, 492	4, 902	9, 938	20, 231	10, 293	(2)

¹ Each total is the sum, expressed to the nearest thousand, of the individual items expressed in units. For this reason the totals in some cases differ slightly from the sums of the items as given here.

² Not called for on schedule.

³ Revised; revision not carried to group total.

⁴ Includes data for "Hammocks," heretofore treated as a separate industry, but now combined with "Furniture."

⁵ Classified in other industries for 1927 and 1925.

THE PRINCIPAL LUMBER INDUSTRIES

"Lumber and timber products," "Planing-mill products," "Boxes, wooden, except cigar boxes," and "Cooperage."

The reports for the lumber industries are included in the series presenting the results of the fourth biennial census of manufactures, and also in the annual series of lumber-production reports which have been published by the Bureau of the Census or by the Forest Service, Department of Agriculture, beginning with 1904.* The statistics showing quantities of products are presented in the current report, so far as possible, in the same form as for preceding years, in order to preserve their comparability.

Duplication in cost of materials and value of products.—Some duplication in the total cost of materials and the total value of products as shown in the combined statistics for the four industries results from the use of the products of sawmills as materials by planing mills not operated in conjunction with sawmills (see "Description of the industry," p. 466), and of the products of both sawmills and planing mills as materials by box factories and cooperage plants.

SUMMARY FOR THE PRINCIPAL LUMBER INDUSTRIES, FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	13,347	552,787	\$581,689,478	\$935,021,080	\$1,997,210,721	\$1,062,198,041	2,581,598
1925-----	15,345	624,736	649,980,027	1,113,268,306	2,352,052,344	1,238,784,038	2,820,880
1923-----	15,095	650,122	658,937,691	1,116,673,798	2,423,238,108	1,306,564,310	2,608,444
1921-----	14,961	484,751	447,857,029	763,865,170	1,544,371,166	780,505,996	(²)
1919-----	33,667	623,565	632,289,026	931,693,030	2,158,964,186	1,222,271,156	2,946,686
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927--	-13.0	-11.5	-10.5	-16.0	-15.1	-14.3	-8.5
1923-1925--	1.7	-3.9	-1.4	-.3	-2.9	-5.2	8.1
1923-1927--	-11.6	-15.0	-11.7	-16.3	-17.6	-18.7	-1.0
1919-1927--	-60.4	-11.4	-8.0	.4	-7.3	-13.1	-12.4

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Revised.

³ Not called for on schedule.

* Statistics have been published by the Bureau of the Census for the years 1904, 1906 to 1912, inclusive, 1919, and 1921 to 1927, inclusive, and by the Forest Service for 1905, 1913, 1915 to 1918, inclusive, and 1920. Data for the 1914 lumber production were collected by the Bureau of the Census in connection with the quinquennial census of manufactures and published by the Forest Service together with its annual report for 1915. The statistics for all years except 1913 and 1914 include data for lath and shingles. For 1921 to 1927, inclusive, the Bureau of the Census and the Forest Service cooperated in collecting data in 12 Western States and in compiling the statistics of production for the United States.

LUMBER AND TIMBER PRODUCTS

[Preliminary reports for this industry were issued as follows: Production of lumber, lath, and shingles, December 26, 1928; Lumber and timber products, January 31, 1929; Production of cooperage stock and Consumption of wood in manufacture of veneers, February 26, 1929]

Description of the industry.—Under the industry designation "Lumber and timber products" are classified logging camps, merchant sawmills, planing mills¹ operated in conjunction with sawmills, veneer mills, and cooperage-stock mills.

The principal products of logging camps are saw logs; shingle, stave, and heading bolts; hewn and round poles; mine timbers; spars; piling; fence posts; railway ties; and wheel, handle, and excelsior stock. Those of sawmills include rough lumber, shingles, lath, sawed railway ties, and cooperage, spool, pencil, penholder, and veneer stock. The principal planing-mill products are dressed lumber, sash, doors, blinds, interior woodwork, and molding.

Veneers are cut into so many different thicknesses—ranging from less than one one-hundred-and-twentieth of an inch to more than five-sixteenths of an inch—that it is difficult to obtain accurate data pertaining to the number of square feet made. Many manufacturers failed to supply this information because of lack of records. (See Tables 16 to 19, inclusive.)

The products of cooperage-stock mills are tight and slack staves, heading, and wooden hoops used by coopers in the manufacture of hogsheads, barrels, kegs, kits, and firkins. Containers for liquids are made from "tight cooperage stock" and containers for solids from "slack cooperage stock." Tight and slack cooperage stock are not, as a rule, produced by the same establishments, because of the differences in the kinds of wood used and in the methods of manufacture employed. (See Tables 20 to 31, inclusive.)

Practically all the products of the establishments in this industry are used as materials for remanufacture by establishments in other industries—for example, the manufacture of furniture—or as building materials.

Establishments producing less than 200,000 feet of lumber.—As explained elsewhere (see "Limitation of statistics to establishments reporting products valued at \$5,000 or more," p. 6), no data except in regard to products were collected at the census for 1927 from establishments reporting products valued at less than \$5,000. This limitation of the canvass applied to manufacturing industries in general, but in the case of the lumber and timber products industry the limit was fixed at an output of 200,000 feet of lumber (or its equivalent in lath or shingles) rather than of products valued at \$5,000. In other words, for census purposes, a mill which sawed less than 200,000 feet of lumber and reported no other products of any considerable value was classified as an establishment with products under \$5,000 in value. Data in regard to quantities of products were, however, collected in the 12 Western States from mills which produced less than 200,000 feet each. In the Eastern States the lumber cut by mills each of which cut from 50,000 to 200,000 feet per year was estimated on the bases of the figures for the preceding two years. Figures for the cut of these small mills were included in these statistics in order to retain the comparability of the figures for 1927 with those for previous years.

¹ Planing mills not operated in conjunction with sawmills are classified separately. (See p. 502.)

Omission of custom mills.—At the censuses for 1927, 1925, 1923, 1921, 1914, and 1904, the canvass of sawmills was restricted to merchant mills—that is, establishments engaged mainly or exclusively in sawing timber owned by them—and large establishments engaged in contract sawing. At all decennial censuses (1919, 1909, 1899, etc.), however, the canvass also covered custom mills; that is, small establishments engaged mainly or exclusively in sawing timber not owned by them. The figures for 1919 in Table 1 and those for 1919, 1909, and 1899 in Table 3 have been adjusted so that they exclude data for such mills, but those for 1889 and earlier years in Table 3 cover custom mills, it being impracticable to separate the earlier data for the two classes of mills.

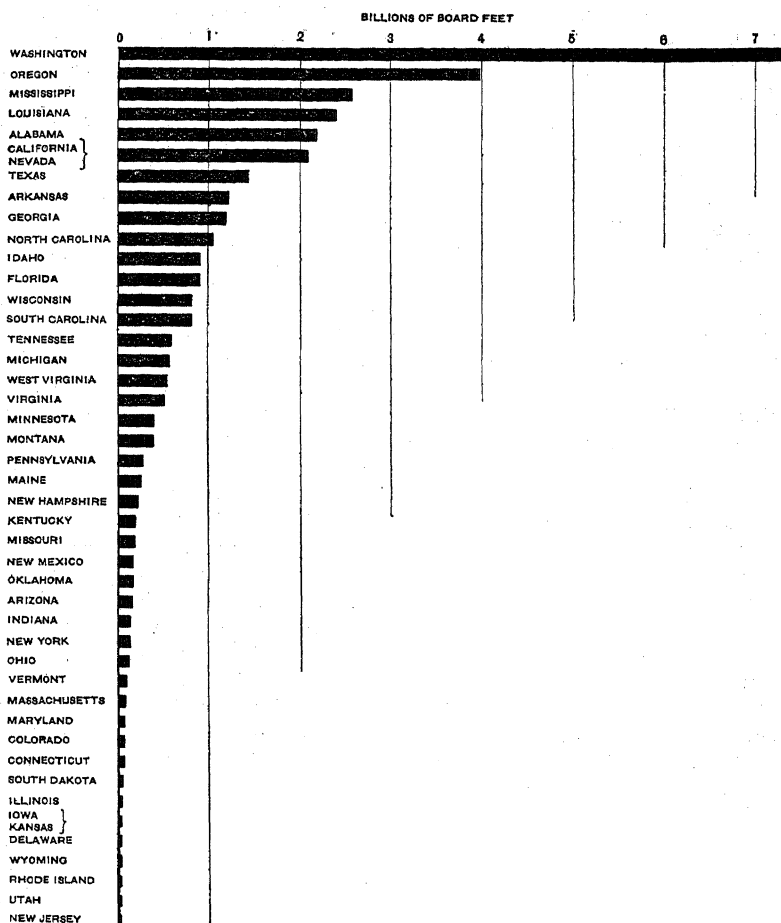
Duplication in cost of materials and value of products.—To the extent to which the products of independent logging concerns are used as materials by sawmills, the value of the products of the former is included both in the total cost of materials and in the total value of products for the industry as a whole. In most cases, however, the logging and the sawing are done by the same establishments, so that no great amount of duplication of this character is involved.

Comparability of number of establishments and number of mills.—The numbers of establishments, as shown in Tables 1 and 32, differ somewhat from the numbers of mills, as given in Tables 4 and 15. These differences are due to three causes: (1) The establishments include independent logging camps, which are not, of course, included with mills in Tables 4 and 15. (2) The numbers of mills are the actual numbers of individual mills, whereas in some cases two or more mills operated under a common ownership are counted as a single establishment. (See "The establishment," p. 7.) (3) The mills include all those whose production amounted to 50,000 feet of lumber or more, whereas the establishments include only those which reported 200,000 feet or more. (See "Establishments producing less than 200,000 feet of lumber," p. 466.)

States reporting more than 1,000,000,000 feet.—The following statement shows for each of the 10 States which reported the production of more than 1,000,000,000 feet in 1927, the principal species of lumber cut and the percentage which the cut therefrom formed of the total for the State.

STATE	Principal species of timber cut in 1927	Per cent which cut of principal species formed of total for State
Alabama.....	Yellow pine.....	86.3
Arkansas.....	Yellow pine.....	55.2
California.....	Western yellow pine.....	37.6
Georgia.....	Yellow pine.....	53.1
Louisiana.....	Yellow pine.....	62.0
Mississippi.....	Yellow pine.....	80.9
North Carolina.....	Yellow pine.....	68.5
Oregon.....	Douglas fir.....	70.0
Texas.....	Yellow pine.....	83.6
Washington.....	Douglas fir.....	71.2

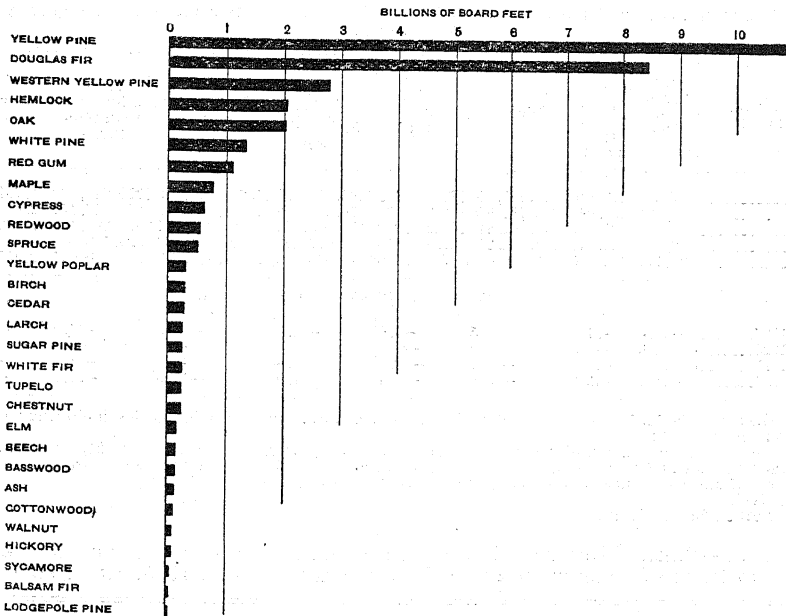
LUMBER CUT, BY STATES: 1927



Principal kinds of wood cut.—Seven species each contributed more than 1,000,000,000 feet to the total lumber cut in 1925, 1926, and 1927. The cut of yellow pine alone formed more than one-third of the total for 1925, and was only slightly less than one-third of the cut for 1926 and 1927. Statistics for the 29 species of timber which together supplied over 99 per cent of the total cut of lumber in the United States are presented in Tables 3 to 6, inclusive, and the production from minor species is given in Table 7. The following statement lists each of the 16 States which in 1927 led in the production of lumber from 1 or more of these 29 species.

STATE	Kind or kinds of wood in the cut of which the specified State ranked first in 1927	STATE	Kind or kinds of wood in the cut of which the specified State ranked first in 1927
Arkansas.....	Oak.	Montana.....	Larch.
California.....	Redwood, sugar pine, and white fir.	Ohio.....	Walnut.
Colorado.....	Lodgepole pine.	Oregon.....	Western yellow pine.
Idaho.....	White pine.	Pennsylvania.....	Beech.
Louisiana.....	Red gum, cypress, tupelo, and ash.	Tennessee.....	Yellow poplar, hickory, and sycamore.
Maine.....	Balsam fir.	Washington.....	Douglas fir, hemlock, cedar, and spruce.
Michigan.....	Maple.	West Virginia.....	Chestnut.
Mississippi.....	Yellow pine and cottonwood.	Wisconsin.....	Birch, basswood, and elm.

LUMBER CUT, BY KINDS OF WOOD: 1927



Average values of lumber, by kinds of wood.—The average values shown in Table 8 were based on returns from a majority of the establishments reporting for each year, and it is believed that they reflect fairly accurately the average values of the several kinds of lumber at the mill, for the United States as a whole. These values vary somewhat in different States because of differences in the quality of timber and the quantities and classes of lumber produced.

Statistics for Alaska.—The canvasses for the biennial censuses of manufactures have not, as a rule, covered the outlying possessions of the United States, but data on the lumber production in Alaska have been collected annually since 1922 and for quinquennial and decennial census years since 1899. The following statement presents statistics compiled from these data, showing the production of lumber and shingles in Alaska from 1899 to 1927.

PRODUCTION OF LUMBER AND SHINGLES IN ALASKA: 1899 TO 1927

YEAR	Number of establishments	LUMBER SAWED (M FEET B. M.)				Shingles (thousands)
		Total	Spruce	Hemlock	All other	
1927	21	41,395	34,571	6,291	533	3,628
1926	22	47,960	40,871	5,769	1,320	5,420
1925	28	40,857	35,718	2,938	2,201	2,636
1924	24	33,097	30,917	1,738	442	5,155
1923	20	36,076	33,504	2,266	306	2,279
1922	19	56,800	54,605	1,569	626	3,003
1919	22	21,673	21,182	491		
1904	6	7,974	7,933		41	926
1899	10	6,571	6,056	15	500	

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Paid for contract work ¹	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ²	Horse-power ³
1927	7,510	413,946	\$413,361,954	\$28,483,260	\$493,959,120	\$1,214,645,683	\$720,686,563	1,781,734
1925	9,207	467,090	456,715,665	31,306,104	579,474,682	1,421,161,836	841,687,154	2,049,500
1923	9,393	495,932	475,962,443	41,245,959	573,063,833	1,494,462,031	921,398,198	1,932,091
1921	9,092	364,247	313,486,957	31,036,315	377,927,443	902,501,306	524,573,853	(⁴)
1919	26,119	480,945	489,419,091	37,546,478	470,960,488	1,387,471,413	916,510,925	2,355,345
PER CENT OF INCREASE OR DECREASE (—)								
1925-1927	-18.4	-11.4	-9.5	-9.0	-14.8	-14.5	-14.4	-13.1
1923-1925	-2.0	-5.8	-4.0	-24.1	1.1	-4.9	-8.7	6.1
1923-1927	-20.0	-16.5	-13.2	-30.9	-13.8	-18.7	-21.8	-7.8
1919-1927	-71.2	-13.9	-15.5	-24.1	4.9	-12.5	-21.4	-24.4

¹ At the census for 1927 data for contract work were collected from only a few industries, including "Lumber and timber products."

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

³ The figures for 1927 are not strictly comparable with those for 1925 and earlier years because of the omission for 1927 and the inclusion for earlier years of data for power employed in logging.

⁴ Revised.

⁵ Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923¹

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total	26,127	Horse-power 1,781,734	26,357	Horse-power 2,049,500	24,948	Horse-power 1,932,091
Steam engines	11,652	1,071,032	15,683	1,453,753	16,677	1,722,895
Steam turbines	478	418,586	453	350,970		
Internal-combustion engines	1,579	41,999	1,523	40,226		
Water wheels and turbines	297	22,369	397	33,117	399	27,798
Electric motors driven by purchased current	12,121	227,748	8,301	171,434	6,832	152,138
Electric motors, total	39,794	750,372	30,859	740,257	21,619	475,962
Driven by purchased current	12,121	227,748	8,301	171,434	6,832	152,138
Driven by current generated in establishment reporting	27,673	522,624	22,558	568,823	14,787	323,824
Electric generators	1,062	Kilowatts 409,586	1,201	Kilowatts 382,769	(²)	Kilowatts (²)

¹ The figures for 1927 are not strictly comparable with those for 1925 and earlier years because of the omission for 1927 and the inclusion for earlier years of data for power employed in logging.

² Not called for on schedule.

TABLE 3.—QUANTITY AND PER CENT DISTRIBUTION OF LUMBER CUT, BY GROUPS OF STATES, FOR SPECIFIED YEARS: 1869 TO 1927

YEAR	Total quantity ¹ (M feet board measure)	NORTHEASTERN STATES ²		CENTRAL STATES ³		SOUTHERN STATES ⁴		NORTH CAROLINA PINE STATES ⁵	
		Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total
1927	34,532,420	1,231,308	3.6	1,828,956	5.3	12,068,043	34.9	2,407,854	7.0
1926	36,935,930	1,409,089	3.8	1,986,766	5.4	13,002,788	35.2	2,568,453	7.0
1925	38,338,641	1,506,756	3.9	1,968,531	5.1	14,418,275	37.6	2,730,204	7.1
1924	35,930,986	1,618,693	4.5	2,036,512	5.7	13,592,594	37.8	2,646,483	7.4
1923	37,165,505	1,631,111	4.4	2,045,042	5.5	13,524,375	36.4	2,937,093	7.9
1922	31,568,888	1,423,377	4.5	1,762,298	5.6	11,974,771	37.9	2,408,540	7.6
1921	26,960,864	1,797,074	6.7	1,647,425	6.1	11,321,766	42.0	2,208,327	8.2
1920	33,798,800	2,198,000	6.5	2,735,300	8.1	11,490,300	34.0	2,871,600	8.5
1919	34,552,076	2,583,873	7.5	3,015,887	8.7	12,704,483	36.8	3,374,152	9.8
1918	31,890,494	2,373,600	7.4	2,490,000	7.8	11,135,000	34.9	2,640,000	8.3
1917	35,831,239	2,488,146	7.0	2,665,000	7.4	13,900,000	38.8	3,265,000	9.1
1916	39,807,251	3,115,237	7.8	3,315,000	8.3	15,325,000	38.5	4,292,000	10.8
1915	37,011,656	3,775,000	10.2	3,670,000	9.9	13,590,000	36.7	4,390,000	11.9
1914	37,346,023	3,553,092	9.5	3,621,339	9.7	13,383,523	35.8	4,417,464	11.8
1913	38,387,009	3,097,061	8.1	3,930,847	10.2	14,328,810	37.3	3,983,395	10.4
1912	39,158,414	3,712,557	9.5	4,338,449	11.1	13,537,894	34.6	4,580,235	11.7
1911	37,003,207	3,634,743	9.8	4,237,791	11.5	12,221,970	33.0	3,743,386	10.1
1910	40,018,282	3,954,067	9.9	4,674,967	11.7	13,248,679	33.1	4,183,745	10.4
1909	44,509,761	5,197,012	11.7	5,487,165	12.3	14,795,731	33.3	5,177,091	11.6
1899	35,077,595	5,709,224	16.3	5,643,379	16.1	8,403,802	24.0	2,712,186	7.7
1889	23,842,230	4,725,568	19.8	3,129,988	13.1	3,717,728	15.6	1,128,968	4.7
1879	18,091,356	4,642,656	25.7	3,349,232	18.5	1,754,956	9.7	743,533	4.1
1869	12,755,543	4,557,428	35.7	2,284,423	17.9	923,489	7.2	364,261	2.9

YEAR	LAKE STATES ⁶		NORTH PACIFIC STATES ⁷		SOUTH PACIFIC STATES ⁸		NORTH ROCKY MOUNTAIN STATES ⁹		SOUTH ROCKY MOUNTAIN STATES ¹⁰		OTHER STATES ¹¹	
	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total	Quantity (M feet b. m.)	Per ct. of total
1927	1,794,652	5.2	11,318,714	32.8	2,070,811	6.0	1,320,253	3.8	427,938	1.2	63,891	0.2
1926	2,046,958	5.5	12,000,974	32.5	2,187,959	5.9	1,326,169	3.6	343,491	.9	63,283	.2
1925	2,444,925	6.4	11,243,708	29.3	2,042,991	5.3	1,529,429	4.0	390,974	1.0	62,848	.2
1924	2,338,104	6.5	9,932,890	27.6	1,996,496	5.6	1,368,295	3.8	331,756	.9	69,163	.2
1923	2,392,301	6.4	10,643,739	28.6	2,118,094	5.7	1,499,847	4.0	311,203	.8	62,700	.2
1922	1,944,236	6.2	8,860,045	28.1	1,720,556	5.4	1,161,039	3.7	268,843	.9	45,183	.1
1921	1,784,009	6.6	5,854,019	21.7	1,350,438	5.0	756,609	2.8	195,453	.7	45,744	.2
1920	2,386,000	7.1	8,842,000	26.2	1,513,000	4.5	1,380,000	4.1	318,700	.9	63,900	.2
1919	2,691,868	7.8	7,538,623	21.8	1,259,363	3.6	1,052,766	3.0	245,918	.7	85,143	.2
1918	3,220,000	10.1	7,313,373	22.9	1,277,084	4.0	1,142,529	3.6	246,774	.8	52,134	.2
1917	3,525,000	9.8	7,153,500	20.0	1,417,068	4.0	1,110,000	3.1	260,789	.7	46,736	.1
1916	4,050,000	10.2	6,716,000	16.9	1,420,000	3.6	1,233,500	3.1	290,330	.7	50,184	.1
1915	3,410,000	9.2	5,640,000	15.2	1,130,000	3.1	1,105,000	3.0	244,094	.7	57,562	.2
1914	3,917,666	10.5	5,784,064	15.4	1,303,183	3.5	1,081,350	2.9	258,483	.7	45,859	.1
1913	3,866,040	10.1	6,690,520	17.4	1,183,380	3.1	1,010,590	2.6	236,126	.6	60,240	.2
1912	4,424,429	11.3	6,015,935	15.4	1,203,059	3.1	985,749	2.5	270,003	.7	90,104	.2
1911	4,713,755	12.7	5,868,452	15.9	1,207,561	3.3	994,086	2.7	296,657	.8	84,806	.2
1910	5,030,106	12.6	6,182,125	15.4	1,254,826	3.1	1,065,073	2.7	320,314	.8	104,380	.3
1909	5,476,270	12.3	5,761,911	12.9	1,143,507	2.6	954,382	2.1	337,668	.8	179,024	.4
1899	8,749,842	24.9	2,163,070	6.2	737,760	2.1	321,048	.9	235,319	.7	401,465	1.1
1889	8,250,702	34.6	1,510,067	6.3	517,781	2.2	117,311	.5	132,120	.6	611,997	2.6
1879	6,278,567	34.7	337,347	1.9	326,340	1.8	39,624	.2	114,371	.6	504,730	2.8
1869	3,592,202	28.2	203,936	1.6	353,842	2.8	14,061	.1	44,735	.4	417,166	3.3

¹ Computed by the Forest Service, Department of Agriculture, for 1915 to 1918, inclusive, and 1920. For 1910 to 1918, inclusive, 1920, 1922, 1923, 1924, 1925, 1926, and 1927 the cut of small mills, each reporting less than 50,000 feet, was omitted from the statistics; and for 1914, 1921, 1923, 1925, and 1927 the cut of custom mills was also omitted.

² Northeastern group: Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

³ Central group: Illinois, Indiana, Kentucky, Missouri, Ohio, Tennessee, and West Virginia.

⁴ Southern group: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, and Texas.

⁵ North Carolina pine group: North Carolina, South Carolina, and Virginia.

⁶ Lake States group: Michigan, Minnesota, and Wisconsin.

⁷ North Pacific group: Washington and Oregon.

⁸ South Pacific group: California and Nevada.

⁹ North Rocky Mountain group: Idaho and Montana.

¹⁰ South Rocky Mountain group: Arizona, Colorado, New Mexico, Utah, and Wyoming.

¹¹ Other: Iowa, Kansas, Nebraska, South Dakota, North Dakota, and District of Columbia.

¹² Cut for Nevada included under "Other States" for 1909 to 1914, inclusive, and for 1919 and 1921.

TABLE 4.—PRODUCTION OF LUMBER, BY STATES: 1927, 1926, AND 1925¹

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the States shown in combination, however, reported larger quantities of lumber sawed than some of the States shown separately]

STATE	NUMBER OF ACTIVE MILLS REPORTING			LUMBER SAWED					
				Quantity (M feet b. m.)			Per cent of increase or decrease (-)		
	1927	1926	1925	1927	1926	1925	1926-27	1925-26	
United States.....	13,756	15,241	15,621	34,532,420	36,935,930	38,338,641	-6.5	-3.7	
Alabama.....	1,647	1,634	1,693	2,171,687	2,105,122	2,235,738	3.2	-5.8	
Arizona.....	26	23	27	169,085	115,232	145,609	46.7	-20.9	
Arkansas.....	460	567	634	1,229,431	1,441,018	1,597,130	-14.7	-9.8	
California and Nevada ²	154	180	173	2,070,811	2,187,959	2,042,991	-5.4	7.1	
Colorado.....	116	128	145	67,321	75,278	71,069	-10.6	6.9	
Connecticut.....	144	132	128	55,949	47,367	41,650	18.1	13.7	
Delaware.....	45	36	30	16,824	9,433	7,324	78.4	28.8	
Florida.....	183	194	227	907,128	920,585	1,063,876	-1.5	-13.5	
Georgia.....	1,133	1,087	1,103	1,201,008	1,145,489	1,365,174	4.8	-16.1	
Idaho.....	145	145	144	923,986	947,471	1,140,575	-2.5	-16.9	
Illinois.....	50	63	59	28,663	38,357	29,456	-25.3	30.2	
Indiana.....	256	246	286	143,492	139,472	178,560	6.5	-21.9	
Iowa and Kansas ²	27	24	25	16,982	14,002	16,069	21.3	-12.9	
Kentucky.....	375	431	401	197,018	216,759	207,278	-8.8	4.6	
Louisiana.....	237	316	310	2,335,724	2,889,530	3,293,091	-17.4	-12.3	
Maine.....	400	508	480	263,818	340,893	330,103	-22.6	3.3	
Maryland.....	256	262	295	67,541	68,444	88,963	-1.3	-23.1	
Massachusetts.....	175	176	139	88,298	86,168	109,625	2.5	-21.4	
Michigan.....	143	159	173	578,254	663,344	797,610	-12.8	-16.8	
Minnesota.....	123	155	167	396,891	471,090	573,703	-15.8	-18.6	
Mississippi.....	837	1,175	1,279	2,556,612	2,894,994	3,127,678	-11.7	-7.4	
Missouri.....	356	273	313	159,130	178,568	186,739	5.9	-4.4	
Montana.....	126	122	120	390,267	378,698	388,854	4.6	-2.6	
New Hampshire.....	252	312	304	215,612	243,007	290,680	-11.1	-6.8	
New Jersey.....	24	31	39	5,044	6,953	9,816	-27.5	-20.2	
New Mexico.....	73	67	71	172,517	127,110	152,330	35.7	-16.6	
New York.....	899	452	497	142,505	170,963	197,654	-16.6	-13.5	
North Carolina.....	1,142	1,057	1,044	1,055,222	970,965	1,040,735	8.7	-6.7	
Ohio.....	379	411	397	127,880	141,499	140,736	-9.6	5.5	
Oklahoma.....	74	82	72	169,943	149,929	157,580	13.3	-4.9	
Oregon.....	369	399	407	3,992,852	4,454,735	4,216,883	-10.4	5.7	
Pennsylvania.....	589	634	627	277,722	318,797	330,822	-12.9	-3.6	
Rhode Island.....	16	11	11	6,815	5,426	3,686	25.6	47.2	
South Carolina.....	370	497	520	817,016	920,525	980,289	-11.3	-6.1	
South Dakota.....	48	49	54	46,909	49,281	46,779	-4.8	5.3	
Tennessee.....	566	688	647	595,297	683,323	642,359	-12.9	6.4	
Texas.....	194	222	225	1,446,400	1,456,121	1,578,008	-7.7	-7.7	
Utah.....	49	53	47	6,152	6,479	5,861	-5.0	10.5	
Vermont.....	252	306	310	90,880	111,638	126,433	-13.6	-11.7	
Virginia.....	688	919	999	535,616	676,663	709,180	-20.8	-4.6	
Washington.....	400	480	498	7,325,862	7,546,239	7,027,325	-2.9	7.4	
West Virginia.....	223	270	267	541,870	588,788	583,353	-8.0	1.9	
Wisconsin.....	197	223	231	819,507	912,624	1,068,612	-10.2	-14.6	
Wyoming.....	38	42	43	12,863	19,392	16,105	-33.7	20.4	

¹ Not including production of mills cutting less than 50,000 feet each.

² Combined to avoid disclosing the output of individual establishments.

TABLE 5.—PRODUCTION OF LUMBER, BY KINDS OF WOOD: 1927, 1926, AND 1925

KIND OF WOOD	LUMBER SAWED				
	Quantity (M feet b. m.) ¹			Per cent of increase or decrease (—)	
	1927	1926	1925	1926-1927	1925-1926
Total.....	34, 532, 420	36, 935, 930	38, 338, 641	-6. 5	-3. 7
ash.....	136, 820	164, 397	179, 032	-16. 8	-8. 2
balsam fir.....	15, 939	18, 485	19, 686	-13. 8	-6. 1
baswood.....	145, 601	153, 164	179, 642	-4. 9	-14. 7
beech.....	154, 158	174, 731	180, 585	-11. 8	-3. 2
birch.....	326, 788	365, 159	412, 229	-10. 5	-11. 4
cedar.....	305, 964	367, 578	372, 162	-16. 8	-1. 2
chestnut.....	263, 771	297, 540	308, 091	-11. 3	-3. 4
cottonwood.....	103, 535	121, 974	142, 113	-15. 1	-14. 2
cyprus.....	609, 679	752, 499	902, 590	-19. 0	-16. 6
douglas fir.....	8, 443, 053	8, 806, 535	8, 154, 373	-4. 1	8. 0
elm.....	160, 536	182, 356	190, 632	-12. 0	-4. 3
hemlock.....	2, 070, 812	2, 158, 652	2, 139, 631	-4. 1	. 9
hickory.....	51, 584	85, 589	79, 293	-39. 7	7. 9
oak.....	288, 327	254, 457	306, 991	13. 3	-17. 1
redgum pine.....	13, 255	29, 110	24, 979	-54. 5	16. 5
saple.....	774, 000	829, 020	921, 566	-6. 6	-10. 0
oak.....	2, 013, 053	2, 190, 564	2, 129, 181	-8. 1	2. 9
red gum.....	1, 101, 112	1, 133, 347	1, 100, 648	-2. 8	3. 0
redwood.....	569, 605	487, 715	510, 639	16. 8	-4. 5
pruce.....	529, 467	647, 191	751, 276	-18. 2	-13. 9
ugar pine.....	282, 217	306, 465	306, 992	-7. 9	-. 2
ycamore.....	29, 437	32, 153	24, 286	-8. 3	32. 4
upelo.....	267, 192	256, 276	220, 219	4. 3	16. 4
Walnut.....	65, 081	52, 087	70, 251	24. 9	-25. 9
Western yellow pine.....	2, 798, 754	3, 172, 975	3, 127, 208	-11. 8	1. 5
White fir.....	279, 737	349, 984	336, 887	-20. 1	3. 9
White pine.....	1, 344, 466	1, 366, 051	1, 521, 128	-1. 6	-10. 2
Yellow pine.....	10, 891, 247	11, 751, 647	13, 235, 936	-7. 3	-11. 2
Yellow poplar.....	334, 604	321, 579	375, 662	4. 1	-14. 4
Other.....	162, 576	106, 710	114, 733	52. 4	-7. 0

¹ Not including production of mills cutting less than 50,000 feet each.² Includes 299 M feet of California red fir.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1927

ASH

The species of ash covered by this table are as follows:

WHITE ASH (*Fraxinus americana*); cut principally in the Central States.

GREEN ASH (*Fraxinus pennsylvanica lanceolata*); cut principally in the Southern States.

BLACK (or BROWN) ASH (*Fraxinus nigra*); cut in the Lake States and Northeastern States.

RED ASH (*Fraxinus pennsylvanica*); cut in small quantities in the Eastern States.

OREGON ASH (*Fraxinus oregana*); cut in the Pacific Northwest.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States.....	136, 820	\$43. 82	Wisconsin.....	8, 293	\$39. 58
Louisiana.....	19, 736	41. 95	North Carolina.....	4, 242	41. 22
Arkansas.....	18, 199	37. 42	Michigan.....	3, 898	41. 35
Georgia.....	11, 515	49. 42	West Virginia.....	3, 550	57. 69
South Carolina.....	10, 027	38. 26	Indiana.....	3, 475	61. 39
Tennessee.....	9, 530	46. 66	Alabama.....	3, 405	37. 01
Mississippi.....	8, 723	42. 03	Pennsylvania.....	3, 003	44. 78
Texas.....	8, 382	52. 47	Other States ¹	20, 842	49. 66

BALSAM FIR

Abies balsamea is the only species cut as BALSAM FIR.

United States.....	15, 939	\$25. 92	Minnesota.....	4, 001	\$20. 17
Maine.....	6, 298	27. 53	Vermont.....	3, 496	28. 39
			Other States ¹	2, 144	27. 91

BASSWOOD

The chief species of basswood covered by this table are as follows:

BASSWOOD (or LINN) (*Tilia glabra*); cut principally in the Lake States.

WHITE BASSWOOD (*Tilia heterophylla*); cut in the Appalachian Mountain region.

United States.....	145, 601	\$39. 84	Virginia.....	4, 670	\$48. 39
Wisconsin.....	60, 913	40. 42	New York.....	4, 041	36. 76
Michigan.....	25, 354	42. 66	Indiana.....	3, 597	44. 38
West Virginia.....	19, 072	39. 83	Vermont.....	3, 040	32. 01
North Carolina.....	6, 233	34. 57	Pennsylvania.....	2, 842	34. 42
Tennessee.....	6, 031	37. 84	Kentucky.....	2, 060	38. 95
			Other States ¹	7, 748	31. 60

BEECH

Fagus grandifolia is the only species cut for BEECH lumber.

United States.....	154, 158	\$27. 21	West Virginia.....	12, 545	\$27. 38
Pennsylvania.....	22, 474	28. 82	Kentucky.....	11, 890	23. 93
Michigan.....	18, 122	28. 11	Tennessee.....	7, 793	26. 58
Indiana.....	18, 109	28. 36	Vermont.....	4, 833	25. 62
Ohio.....	17, 719	25. 86	Massachusetts.....	4, 121	25. 17
New York.....	17, 580	28. 94	Other States ¹	19, 472	26. 00

BIRCH

The species of birch covered by this table are as follows:

YELLOW BIRCH (*Betula lutea*); the principal species cut in the Lake States, New England, and New York.

PAPER BIRCH (*Betula papyrifera*) and GRAY BIRCH (*Betula populifolia*); cut to a small extent in New England.

SWEET (or CHERRY) BIRCH (*Betula lenta*); cut in West Virginia and Pennsylvania.

RIVER (or RED) BIRCH (*Betula nigra*); cut in the Southern States.

United States.....	326, 788	\$41. 03	New Hampshire.....	9, 238	\$30. 32
Wisconsin.....	164, 218	39. 92	West Virginia.....	7, 007	37. 98
Michigan.....	73, 759	40. 82	Pennsylvania.....	3, 910	34. 72
Maine.....	23, 721	58. 79	Tennessee.....	3, 237	33. 14
New York.....	18, 376	50. 81	North Carolina.....	3, 061	31. 37
Vermont.....	12, 802	31. 67	Other States ¹	7, 459	29. 94

¹ See Table 15

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES:
1927—Continued

CEDAR

The species of cedar covered by this table are as follows:

WESTERN RED CEDAR (*Thuja plicata*); cut in Washington, Oregon, and Idaho.

PORT ORFORD CEDAR (*Chamaecyparis lawsoniana*); cut in Oregon.

ALASKA CEDAR (*Chamaecyparis nootkatensis*); cut in Washington.

INCENSE CEDAR (*Libocedrus decurrens*); cut in California.

NORTHERN WHITE CEDAR (or ARBORVITÆ) (*Thuja occidentalis*); cut in the Lake States and the Northeastern States.

SOUTHERN WHITE CEDAR (or "JUNIPER") (*Chamaecyparis thyoides*); cut in the Atlantic Coast States.

EASTERN RED CEDAR (*Juniperus virginiana*) and SOUTHERN RED CEDAR (*Juniperus lucayana*); cut principally in Tennessee, Florida, and Alabama.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States.....	305,964	\$34.39	Tennessee.....	7,790	\$50.42
Washington.....	169,505	34.42	Virginia.....	6,595	30.00
Oregon.....	54,391	38.64	Alabama.....	4,607	54.74
California.....	30,361	23.50	North Carolina.....	4,285	66.73
Idaho.....	16,789	16.71	Other States ¹	11,641	39.69

CHESTNUT

Castanea dentata is the only species cut for CHESTNUT lumber. Includes several species of chinquapin, such as *Castanea ozarkensis*, cut for ties in Arkansas and possibly in sections farther east.

United States.....	263,771	\$29.35	Connecticut.....	7,974	\$26.98
West Virginia.....	86,643	30.61	Maryland.....	5,143	25.34
North Carolina.....	56,820	25.95	Massachusetts.....	4,851	26.24
Virginia.....	30,732	32.02	Ohio.....	3,998	28.80
Tennessee.....	24,121	28.76	New York.....	3,814	27.89
Pennsylvania.....	22,203	33.51	Georgia.....	3,243	28.92
Kentucky.....	9,085	30.32	Other States ¹	5,144	24.97

COTTONWOOD

The species of cottonwood covered by this table are as follows:

EASTERN COTTONWOOD (*Populus deltoides*); the species most commonly cut east of the Rocky Mountains and more particularly in the lower Mississippi Valley.

SWAMP COTTONWOOD (*Populus heterophylla*); cut in the Mississippi Valley States.

ASPEN (or POPLAR) (*Populus tremuloides*); cut in the Lake States and the Northeastern States, and to a small extent in the Rocky Mountains and farther west.

LARGE-TOOTH ASPEN (*Populus grandidentata*); cut in the Lake States and Northeastern States.

BALSAM POPLAR (*Populus balsamifera*); cut in the Lake States and Eastern States.

BLACK COTTONWOOD (*Populus trichocarpa*); cut in the Pacific Coast States.

United States.....	103,535	\$30.92	Missouri.....	5,225	\$29.35
Mississippi.....	20,386	33.55	Alabama.....	3,926	30.33
Minnesota.....	18,321	22.27	South Carolina.....	2,755	32.87
Louisiana.....	15,087	33.74	Georgia.....	2,727	29.77
Arkansas.....	12,336	33.26	Indiana.....	2,080	30.24
Tennessee.....	9,941	36.80	Other States ¹	10,751	29.48

CYPRESS

SOUTHERN CYPRESS (*Taxodium distichum*) and POND CYPRESS (*Taxodium ascendens*).

United States.....	609,679	\$39.91	North Carolina.....	31,527	\$30.42
Louisiana.....	185,543	47.31	Missouri.....	30,553	24.16
Florida.....	152,739	44.61	Mississippi.....	24,455	35.04
South Carolina.....	68,022	32.32	Texas.....	9,651	40.56
Arkansas.....	52,933	28.18	Tennessee.....	7,706	41.21
Georgia.....	34,427	41.01	Other States ¹	12,123	30.74

¹ See Table 15.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES: 1927—Continued

DOUGLAS FIR

Pseudotsuga taxifolia is practically the only species cut commercially as DOUGLAS FIR

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States.....	8, 443, 053	\$19. 45	Idaho.....	82, 546	\$17. 91
Washington.....	5, 216, 546	19. 84	Montana.....	79, 883	17. 47
Oregon.....	2, 795, 392	18. 62	New Mexico.....	33, 343	24. 92
California.....	229, 294	21. 14	Other States ¹	6, 049	22. 41

ELM

The species of elm covered by this table are as follows:

AMERICAN (WHITE OR SOFT) ELM (*Ulmus americana*); cut in all the States east of the Rocky Mountains.SLIPPERY (or RED) ELM (*Ulmus fulva*); cut in the same region as American elm.ROCK ELM (*Ulmus racemosa*); cut in the Lake States.WINGED ELM (*Ulmus alata*) and CEDAR ELM (*Ulmus crassifolia*); cut in small quantities in the lower Mississippi Valley.

United States.....	160, 536	\$36. 22	Indiana.....	12, 830	\$44. 99
Wisconsin.....	48, 825	37. 29	Mississippi.....	12, 143	32. 84
Michigan.....	20, 881	40. 05	Louisiana.....	11, 750	31. 92
Tennessee.....	14, 687	37. 77	Ohio.....	6, 003	39. 78
Arkansas.....	14, 674	30. 05	Missouri.....	4, 840	30. 59
			Other States ¹	13, 903	31. 11

HEMLOCK

The species of hemlock covered by this table are as follows:

EASTERN HEMLOCK (*Tsuga canadensis*); cut in the Lake States, Northeastern States, and the Appalachian region.WESTERN HEMLOCK (*Tsuga heterophylla*); found in Washington and Oregon.MOUNTAIN HEMLOCK (*Tsuga mertensiana*); cut in small quantities in Washington, Oregon, and California.CAROLINA HEMLOCK (*Tsuga caroliniana*); cut in small quantities in the Appalachian region.

United States.....	2, 070, 812	\$19. 06	Maine.....	34, 179	\$27. 36
Washington.....	1, 266, 061	17. 29	Tennessee.....	28, 440	21. 70
Wisconsin.....	244, 074	22. 57	New York.....	18, 717	31. 04
Oregon.....	148, 376	15. 85	New Hampshire.....	17, 743	21. 91
Michigan.....	111, 839	21. 92	Virginia.....	16, 650	23. 55
Pennsylvania.....	75, 425	26. 74	North Carolina.....	16, 479	16. 80
West Virginia.....	59, 292	21. 41	Other States ¹	33, 537	23. 36

HICKORY

Several species of hickory are cut, the principal ones being SHAGBARK HICKORY (*Hicoria ovata*), BIG-LEAF SHAGBARK HICKORY (*Hicoria laciniata*), PIGNUT HICKORY (*Hicoria glabra*), BITTERNUT HICKORY (*Hicoria cordiformis*), and MOCKERNUT HICKORY or WHITE HICKORY (*Hicoria alba*).

United States.....	51, 584	\$37. 08	Pennsylvania.....	3, 196	\$27. 36
Tennessee.....	6, 882	46. 83	Ohio.....	2, 825	48. 71
West Virginia.....	5, 706	29. 59	Indiana.....	2, 804	36. 78
Kentucky.....	5, 461	30. 09	Mississippi.....	2, 660	36. 40
Louisiana.....	4, 009	30. 22	Alabama.....	2, 597	31. 91
Arkansas.....	3, 899	42. 45	Other States ¹	11, 545	40. 07

¹ See Table 15.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES:
1927—Continued

LARCH

The species of larch covered by this table are as follows:

WESTERN LARCH (*Larix occidentalis*); the species cut in the Inland Empire and the Pacific Northwest.
TAMARACK OR LARCH (*Larix laricina*); cut in the Lake States and New England States.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. miH
United States.....	288,327	\$17.69	Oregon.....	9,864	\$16.69
Montana.....	130,647	17.14	Wisconsin.....	8,433	27.08
Idaho.....	97,163	18.93	Minnesota.....	2,668	21.91
Washington.....	38,421	13.99	Michigan.....	1,017	27.18
			Other States ¹	114	34.57

LODGEPOLE PINE

Pinus contorta is the only species cut as LODGEPOLE PINE.

United States.....	13,255	\$20.82	Wyoming.....	2,925	\$17.23
Colorado.....	5,994	22.75	Montana.....	2,013	23.33
			Other States ¹	2,323	18.19

MAPLE

The species of maple covered by this table are as follows:

SUGAR (or HARD) MAPLE (*Acer saccharum*); cut principally in the Northern States.

SILVER (or SOFT) MAPLE (*Acer saccharinum*); also cut in the Northern States.

RED (or SOFT) MAPLE (*Acer rubrum*); the principal species of maple cut in the Southern States.

BIGLEAF MAPLE (*Acer macrophyllum*); cut in Oregon and Washington.

United States.....	774,000	\$35.35	Indiana.....	25,263	\$50.46
Michigan.....	288,851	34.15	Ohio.....	24,342	40.50
Wisconsin.....	197,979	31.89	Tennessee.....	17,808	41.68
West Virginia.....	56,215	36.03	Vermont.....	17,535	31.65
Pennsylvania.....	32,495	39.64	Arkansas.....	16,549	35.22
New York.....	29,701	43.25	Other States ¹	67,262	36.35

OAK

Commercially the oaks are classed as white and red. The principal commercial species are listed below:

WHITE OAKS.—WHITE OAK (*Quercus alba*), common throughout the eastern half of the United States;

CHESTNUT (or ROCK) OAK (*Quercus montana*), found in the Appalachian region; POST OAK (*Quercus stellata*) and BUR OAK (*Quercus macrocarpa*), common throughout the eastern half of the country;

OVERCUP OAK (*Quercus lyrata*) and SWAMP CHESTNUT (or BASKET) OAK (*Quercus prinus*), the principal southern white oaks.

RED OAKS.—RED OAK (*Quercus borealis maxima*), common in the eastern part of the United States;

TEXAS RED OAK (*Quercus texana*), the principal red oak sawed in the lower Mississippi Valley; PIN

OAK (*Quercus palustris*), found in the Eastern and Central States; SCARLET OAK (*Quercus coccinea*),

the northern and northeastern red oak; BLACK OAK (*Quercus velutina*), common in most States

east of the Rocky Mountains; WILLOW OAK (*Quercus phellos*), cut mainly in the Southern States;

SHUMARD RED OAK (*Quercus shumardii*), common from eastern Texas to Florida and the South

Atlantic States, and through Arkansas and Missouri to Indiana and Illinois.

United States.....	2,013,053	\$35.72	Alabama.....	103,788	\$26.42
Arkansas.....	255,861	33.78	Missouri.....	98,504	30.35
Tennessee.....	248,990	39.15	Texas.....	91,539	32.52
Louisiana.....	218,794	32.70	Pennsylvania.....	87,235	30.31
West Virginia.....	179,138	43.11	North Carolina.....	85,800	31.81
Mississippi.....	147,942	32.75	Indiana.....	54,844	52.07
Virginia.....	113,325	45.96	Ohio.....	51,651	37.97
Kentucky.....	109,189	34.77	Georgia.....	41,337	33.48
			Other States ¹	125,116	36.07

¹ See Table 15.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES:
1927—Continued

RED GUM

Liquidambar styraciflua is the only species cut for RED GUM lumber. Commercial sap gum is the sap wood of the red gum.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States.....	1,101,112	\$32.81	South Carolina.....	77,584	\$32.55
Louisiana.....	262,027	33.71	Tennessee.....	71,348	36.56
Mississippi.....	196,561	33.27	Georgia.....	57,815	38.25
Arkansas.....	153,179	33.58	North Carolina.....	27,343	23.36
Alabama.....	99,343	30.34	Virginia.....	21,102	15.35
Texas.....	96,883	32.69	Other States ¹	38,427	29.80

REDWOOD

REDWOOD (*Sequoia sempervirens*) is the species chiefly cut; BIGTREE (*Sequoia washingtoniana*) contributes a minor part of the redwood production.

United States.....	569,605	\$33.81	Mississippi.....	400	\$33.81
California.....	569,205	33.81			

SPRUCE

The species of spruce covered by this table are as follows:

RED SPRUCE (*Picea rubra*); the principal species of spruce cut in the Northeastern States and the Appalachian region.

SITKA SPRUCE (*Picea sitchensis*); the principal species of spruce cut in Oregon and Washington.

BLACK SPRUCE (*Picea mariana*); cut in small quantities in the Northeastern States.

WHITE SPRUCE (*Picea glauca*); cut in the Lake States, New York, and northern New England.

ENGELMANN SPRUCE (*Picea engelmannii*); cut in the Rocky Mountain region.

United States.....	529,467	\$28.59	West Virginia.....	45,122	\$37.39
Washington.....	152,294	24.33	North Carolina.....	39,681	28.61
Oregon.....	107,343	22.81	Vermont.....	23,226	30.09
Maine.....	90,935	28.24	New Hampshire.....	19,625	28.29
			Other States ¹	51,241	25.02

SUGAR PINE

Pinus lambertiana, the only species cut as SUGAR PINE, is found commercially only in California and southern Oregon.

United States.....	282,217	\$43.22			
California.....	274,860	43.67			
Oregon.....	7,327	26.21			

SYCAMORE

Platanus occidentalis is the only species cut as SYCAMORE.

United States.....	29,487	\$29.31	Missouri.....	2,084	\$27.94
Tennessee.....	6,302	31.99	South Carolina.....	1,996	32.65
Arkansas.....	4,949	26.33	Louisiana.....	1,853	28.45
Mississippi.....	4,527	30.77	Alabama.....	1,224	26.34
Indiana.....	2,924	27.61	Other States ¹	3,628	28.69

¹See Table 15.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES:
1927—Continued

TUPELO

The species of tupelo covered by this table are as follows:

TUPELO GUM (or COTTON GUM) (*Nyssa aquatica*); cut in the Gulf States.

BLACK GUM (or PEPPERIDGE) (*Nyssa sylvatica*); cut in the Atlantic and Central States and sold both as tupelo and as black gum.

SWAMP BLACK GUM (*Nyssa biflora*); cut to a small extent in the South Atlantic States.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States.....	267, 192	\$24. 45	North Carolina.....	10, 203	\$22. 09
Louisiana.....	123, 066	22. 44	Arkansas.....	7, 138	26. 38
South Carolina.....	38, 438	23. 11	Georgia.....	6, 009	39. 07
Alabama.....	29, 743	25. 83	Tennessee.....	5, 741	29. 92
Mississippi.....	21, 955	27. 26	Florida.....	4, 620	33. 51
Texas.....	17, 511	27. 22	Other States ¹	2, 768	22. 97

WALNUT

BLACK WALNUT (*Juglans nigra*) is the only species cut for walnut lumber.

United States.....	65, 081	\$111. 64	Missouri.....	11, 451	\$128. 40
Ow and Kansas.....	13, 857	108. 68	Illinois.....	6, 137	114. 37
Ohio.....	13, 144	123. 31	Kentucky.....	4, 199	90. 47
Indiana.....	11, 470	101. 56	Other States ¹	4, 823	87. 44

WESTERN YELLOW PINE

Pinus ponderosa is the principal species cut as WESTERN YELLOW PINE, together with small quantities of JEFFREY PINE (*Pinus jeffreyi*) in California and of ARIZONA PINE (*Pinus arizonica*) in Arizona. Western yellow pine is frequently marketed as "Pondosa pine" and also as "California white pine," the latter name applying to the product of California mills.

United States.....	2, 798, 754	\$26. 04	Arizona.....	168, 991	\$23. 61
Oregon.....	851, 540	24. 68	Montana.....	164, 197	25. 03
California and Nevada.....	777, 711	31. 88	New Mexico.....	131, 448	23. 87
Washington.....	354, 790	23. 05	Colorado.....	47, 799	24. 19
Idaho.....	249, 733	21. 66	South Dakota.....	46, 909	20. 83
			Other States ¹	5, 636	20. 81

WHITE FIR

The following species are marketed as white fir:

WHITE FIR (*Abies concolor*); cut only in the West.

LOWLAND WHITE FIR (*Abies grandis*); cut mainly in Idaho and Montana.

SILVER FIR (*Abies amabilis*); cut chiefly in Washington.

RED FIR (*Abies magnifica*); cut chiefly in California; 299 M feet sawed in 1926.

ALPINE FIR (*Abies lasiocarpa*); cut chiefly in the central and northern Rocky Mountain States and in the Cascade Mountain region.

United States.....	279, 737	\$19. 92	Washington.....	16, 724	\$14. 71
California.....	188, 455	21. 02	Oregon.....	9, 622	16. 95
Idaho.....	57, 530	18. 20	Other States ¹	7, 406	20. 87

¹ See Table 15.

TABLE 6.—PRODUCTION OF LUMBER, BY KINDS OF WOOD, FOR PRINCIPAL STATES:
1927—Continued

WHITE PINE

The species of white pine covered by this table are as follows:

EASTERN WHITE PINE (*Pinus strobus*); cut in the Lake States, the Northeastern States, and the Appalachian region.

NORWAY (or RED) PINE (*Pinus resinosa*); cut in the Lake States and marketed to a large extent with white pine, although botanically a yellow pine.

JACK (or HUDSON BAY) PINE (*Pinus banksiana*); cut in the Lake States.

WESTERN WHITE PINE (*Pinus monticola*); cut in Idaho, Montana, Washington, and Oregon.

STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill	STATE	Quantity (M feet b. m.)	Average value, M feet, f. o. b. mill
United States	1,344,466	\$29.90	Massachusetts	50,796	\$23.80
Idaho	410,252	33.15	Michigan	20,133	38.22
Minnesota	357,797	29.94	New York	16,239	33.85
New Hampshire	152,525	23.04	Pennsylvania	13,597	35.35
Washington	96,667	29.12	Connecticut	13,280	22.01
Maine	96,060	25.93	Montana	12,623	32.79
Wisconsin	68,718	36.01	Vermont	10,186	27.04
			Other States ¹	25,593	25.09

YELLOW PINE

The species of yellow pine covered by this table are as follows:

LONGLEAF PINE (*Pinus palustris*); also known as Georgia pine and hard pine and exported as pitch pine cut mainly in the Gulf States.

LOBLOLLY PINE (*Pinus taeda*); also called shortleaf, North Carolina, old field, rosemary, and Virginia pine; cut mainly in Virginia, North Carolina, South Carolina, Arkansas, and Texas.

SHORTLEAF PINE (*Pinus echinata*); cut mainly in Virginia, North Carolina, South Carolina, Arkansas, Missouri, Louisiana, and Mississippi.

SAND PINE (*Pinus clausa*); Florida and Alabama.

SLASH PINE (*Pinus caribaea*); cut mainly in Georgia and the Gulf States east of the Mississippi River.

VIRGINIA PINE (*Pinus virginiana*); also called JERSEY PINE and SPRUCE PINE; cut in the Middle Atlantic States.

PITCH PINE (*Pinus rigida*); Middle Atlantic and Northern States.

SPRUCE PINE (*Pinus glabra*); Georgia and Gulf States.

POND PINE (*Pinus rigida serotina*); South Atlantic States.

MOUNTAIN PINE (*Pinus pungens*); Appalachian Mountains.

United States	10,891,247	\$23.77	Florida	729,736	\$25.47
Mississippi	2,068,691	26.19	North Carolina	722,336	22.23
Alabama	1,873,280	19.69	Arkansas	679,076	24.55
Louisiana	1,479,162	28.22	South Carolina	569,924	21.06
Texas	1,209,838	26.82	Virginia	290,097	18.42
Georgia	998,359	17.72	Oklahoma	154,467	27.90
			Other States ¹	116,281	22.73

YELLOW POPLAR

YELLOW POPLAR (*Liriodendron tulipifera*) is the species cut for poplar lumber. With it are cut and marketed small quantities of EVERGREEN MAGNOLIA (*Magnolia grandifolia*) in eastern Texas and Louisiana, and CUCUMBER MAGNOLIA (*Magnolia acuminata*) in the southern Appalachian region.

United States	334,604	\$38.58	Mississippi	32,827	\$37.40
Tennessee	56,649	44.19	Virginia	32,731	35.51
West Virginia	52,854	40.64	North Carolina	23,174	36.31
Georgia	40,034	41.51	Kentucky	16,670	40.95
Alabama	36,694	29.92	South Carolina	16,516	38.00
			Other States ¹	26,455	36.09

¹ See Table 15.

TABLE 7.—PRODUCTION OF LUMBER FROM MINOR SPECIES: 1927

KIND OF WOOD	Quantity reported (M feet b. m.)	Average value per M feet, f. o. b. mill	Principal States reporting
Total.....	162,576	\$77.05	
Mahogany.....	59,776	148.37	Louisiana, New York, Massachusetts, Kentucky, and Pennsylvania.
Magnolia.....	26,726	35.48	Louisiana, Texas, and Mississippi.
Alder.....	11,198	27.95	Washington and Oregon.
Cherry.....	10,241	60.40	Pennsylvania, New York, West Virginia, and Tennessee.
Willow.....	5,904	27.82	Mississippi, Louisiana, and Arkansas.
Pecan.....	3,638	27.86	Louisiana.
Buckeye.....	2,944	29.61	Tennessee and North Carolina.
Hackberry.....	2,313	25.04	Arkansas, Mississippi, and Tennessee.
Lauan.....	1,007	89.86	Washington.
Locust.....	640	27.51	Tennessee, Louisiana, and West Virginia.
Spanish cedar.....	373	125.70	Louisiana.
Butternut.....	318	47.58	West Virginia.
Other.....	37,498	31.93	West Virginia, Michigan, Arkansas, Tennessee, Virginia, Indiana, and Texas.

¹ Bay, box elder, cucumber, holly, Honduras woods, ironwood, mulberry, persimmon, Philippine hardwood, sassafras, teak, and 36,344 M feet of wood not specified.

TABLE 8.—AVERAGE VALUES OF LUMBER AT THE MILL PER M FEET, BOARD MEASURE, BY KINDS OF WOOD, FOR SPECIFIED YEARS: 1899 TO 1927

KIND OF WOOD	1927	1926	1925	1924	1923	1922	1921	1919	1917	1915	1911	1909	1904	1899
All kinds ¹	\$25.80	\$27.34	\$28.02	\$28.57	\$31.78	\$26.15	\$23.47	\$30.21	\$20.32	\$14.04	\$15.05	\$15.38	\$12.76	\$11.13
SOFTWOODS														
Balsam fir.....	25.92	25.64	26.65	27.66	27.62	25.05	25.71	32.23	20.02	13.79	13.42	13.99	(²)	(²)
Cedar.....	34.39	37.28	38.80	38.74	37.56	29.19	33.55	33.80	19.40	16.10	13.36	19.95	14.35	10.91
Cypress.....	39.91	43.33	40.90	42.08	44.61	40.05	36.88	38.38	23.92	19.85	20.54	20.46	17.50	13.32
Douglas fir.....	19.45	20.17	20.94	22.08	26.99	20.93	18.04	24.62	16.28	10.59	11.05	12.44	9.51	8.67
Hemlock.....	19.06	20.23	21.58	23.35	26.21	21.83	20.79	29.16	20.78	13.14	13.59	13.95	11.91	9.98
Larch (tamarack).....	17.69	17.77	18.25	20.82	21.98	18.54	15.56	23.39	16.21	10.78	11.87	12.68	11.39	8.73
Lodgepole pine.....	20.82	19.98	20.22	21.07	21.76	19.07	21.81	29.98	18.34	13.57	12.41	16.25	(²)	(²)
Redwood.....	33.81	33.80	33.99	35.90	43.08	35.72	40.57	30.04	21.00	13.54	13.99	14.80	12.83	10.12
Spruce.....	26.59	27.27	27.98	30.18	31.44	25.47	25.73	30.76	24.41	16.58	16.14	16.91	14.03	11.27
Sugar pine.....	43.22	48.45	44.79	40.54	45.33	43.78	37.83	35.99	24.69	17.40	17.52	18.14	(²)	12.30
Western yellow pine.....	26.04	26.63	27.70	27.73	33.09	27.75	26.95	27.75	19.59	14.32	13.62	15.39	11.30	9.70
White fir.....	19.92	20.15	22.51	21.69	23.84	19.97	21.37	25.66	17.16	10.94	10.64	13.10	(²)	(²)
White pine.....	29.90	31.38	32.58	32.66	34.85	36.37	30.03	32.83	24.81	17.44	18.54	18.16	14.93	12.69
Yellow pine.....	23.77	26.54	26.46	26.55	29.82	23.66	19.42	28.71	19.00	12.41	13.87	12.69	9.96	8.46
HARDWOODS														
Ash.....	43.82	48.07	48.46	49.54	50.35	42.43	38.18	52.69	30.01	22.15	21.21	24.44	18.77	15.84
Basswood.....	39.84	37.07	39.76	41.94	45.60	35.67	33.09	40.03	25.96	18.89	19.20	19.50	16.86	12.84
Beech.....	27.21	27.84	29.21	29.95	30.22	26.84	26.99	29.98	19.58	14.01	14.09	13.25	(²)	(²)
Birch.....	41.03	40.80	41.68	43.83	43.33	35.84	31.53	35.79	24.47	16.52	16.61	16.95	15.44	12.50
Chestnut.....	29.35	29.54	30.37	25.07	29.75	29.29	27.87	32.30	21.54	16.17	16.63	16.12	13.78	13.37
Cottonwood.....	30.92	34.47	26.70	29.43	30.19	26.95	25.05	32.24	23.19	17.36	18.12	18.05	14.92	10.37
Elm.....	36.22	37.13	36.41	38.63	43.53	33.28	29.63	36.39	23.89	16.98	17.13	17.52	14.45	11.47
Gum, red and sap.....	32.81	33.73	31.39	30.24	32.35	27.07	22.46	32.68	19.56	12.54	12.11	13.20	10.87	9.63
Hickory.....	37.08	51.20	39.25	52.24	46.39	36.20	36.60	44.37	29.48	23.35	22.47	30.80	23.94	18.78
Maple.....	35.35	37.21	39.18	40.36	41.59	33.52	30.34	35.56	23.16	15.21	15.49	15.77	14.94	11.83
Oak.....	35.72	35.67	37.00	36.13	39.08	34.01	30.56	37.87	24.49	18.73	19.14	20.50	17.51	13.78
Sycamore.....	29.31	29.49	31.11	29.31	30.25	25.29	22.55	30.32	18.63	13.86	13.16	14.87	(²)	11.04
Tupelo.....	24.45	26.71	24.66	25.86	24.90	22.86	18.59	28.42	18.06	12.52	12.46	11.87	(²)	(²)
Walnut.....	111.64	113.57	111.53	103.66	109.38	80.08	88.83	72.13	72.99	48.37	31.70	43.79	45.64	36.49
Yellow poplar.....	38.68	38.63	43.44	44.38	51.29	39.18	37.31	41.65	27.17	22.45	25.46	25.39	18.99	14.03

¹ Including minor species.

² No data.

TABLE 9.—STOCKS OF LUMBER ON HAND AT MILLS, BY STATES: 1927 AND 1925

[The schedule called for data in regard to stocks of lumber on hand at the mills at the beginning and the end of the year. As a general rule, these data were supplied, but many important establishments failed to report. The statistics given in the following table are, therefore, incomplete]

STATE	QUANTITY (M FEET B. M.)			
	1927		1925	
	Jan. 1	Dec. 31	Jan. 1	Dec. 31
United States.....	10,684,199	11,109,225	10,301,273	11,074,877
Alabama.....	355,860	382,490	325,327	324,971
Arizona.....	43,999	58,362	53,923	55,550
Arkansas.....	477,884	485,481	513,401	536,158
California and Nevada ¹	1,073,066	1,060,551	921,497	981,78 8
Colorado.....	11,240	12,281	5,458	13,400
Connecticut.....	8,174	11,864	8,915	9,440
Florida.....	359,981	347,418	314,223	315,833
Georgia.....	218,199	231,307	263,679	270,300
Idaho.....	627,013	654,315	705,386	772,164
Illinois.....	15,168	13,492	6,538	7,570
Indiana.....	46,654	52,654	58,741	52,768
Kentucky.....	74,671	83,191	67,086	81,468
Louisiana.....	932,431	939,732	952,875	983,640
Maine.....	96,443	95,267	110,362	124,677
Maryland.....	7,585	9,498	11,596	13,266
Massachusetts.....	28,616	28,455	30,047	32,024
Michigan.....	395,615	390,973	415,403	437,349
Minnesota.....	265,072	261,055	375,954	413,291
Mississippi.....	642,802	698,814	526,968	550,976
Missouri.....	50,273	63,273	59,126	58,594
Montana.....	213,388	212,744	186,973	213,695
New Hampshire.....	53,411	60,548	78,705	86,626
New Mexico.....	42,075	69,080	38,563	40,594
New York.....	54,324	52,016	69,992	73,294
North Carolina.....	232,144	275,535	216,429	234,959
Ohio.....	21,623	23,324	26,409	24,253
Oklahoma.....	41,498	56,253	31,776	33,426
Oregon.....	926,486	952,631	722,936	821,808
Pennsylvania.....	89,472	90,145	91,451	101,569
South Carolina.....	240,889	264,146	216,597	256,915
South Dakota.....	11,467	9,719	11,130	12,627
Tennessee.....	292,104	331,261	232,382	234,259
Texas.....	372,136	417,484	287,668	310,211
Vermont.....	29,644	30,496	48,451	52,673
Virginia.....	126,879	142,260	177,762	199,299
Washington.....	1,409,120	1,484,562	1,259,558	1,367,746
West Virginia.....	255,211	278,829	276,415	280,021
Wisconsin.....	529,749	470,116	595,411	686,888
Other States ²	5,833	7,603	6,160	8,752

¹ Combined to avoid disclosing data for individual establishments.

² Delaware, Iowa, Kansas, New Jersey, Rhode Island, Utah, and Wyoming; combined in order to avoid disclosing data for individual establishments.

TABLE 10.—LUMBER CUT, BY KINDS OF SAWS, BY STATES: 1927

[M feet b. m.]

STATE	Total	CIRCULAR		BAND, GANG, ETC.	
		Hardwoods	Softwoods	Hardwoods	Softwoods
United States.....	34,532,420	1,902,700	9,165,340	4,187,198	19,277,182
Alabama.....	2,171,687	97,312	1,387,816	189,764	496,795
Arizona.....	169,085	-----	5,074	-----	164,011
Arkansas.....	1,229,481	96,325	202,829	401,147	529,180
California and Nevada ¹	2,070,811	79	76,344	114	1,994,274
Colorado.....	67,321	71	50,101	-----	17,149
Connecticut.....	55,949	36,779	19,170	-----	-----
Delaware.....	16,824	3,673	9,588	-----	3,563
Florida.....	907,128	6,902	384,831	17,638	497,757
Georgia.....	1,201,008	50,869	948,154	115,704	86,281
Idaho.....	923,986	8	60,239	487	863,252
Illinois.....	28,663	10,094	75	17,769	725
Indiana.....	148,492	63,439	50	84,923	30
Iowa and Kansas ¹	16,982	7,752	-----	9,230	-----
Kentucky.....	197,618	91,789	5,876	88,969	10,984
Louisiana.....	2,385,724	110,841	538,777	609,896	1,126,210
Maine.....	263,818	29,249	163,687	3,346	67,536
Maryland.....	67,541	35,956	31,585	-----	-----
Massachusetts.....	88,298	20,522	55,100	7,678	4,988
Michigan.....	578,254	37,696	8,557	402,479	129,522
Minnesota.....	396,891	10,016	9,622	15,509	361,744
Mississippi.....	2,556,612	76,443	714,995	336,622	1,378,552
Missouri.....	189,136	91,757	14,003	51,439	31,937
Montana.....	396,267	60	72,503	-----	323,704
New Hampshire.....	215,912	22,574	162,491	2,668	28,179
New Jersey.....	5,044	4,786	258	-----	-----
New Mexico.....	172,517	-----	37,959	-----	134,558
New York.....	142,505	61,782	35,269	42,050	3,404
North Carolina.....	1,055,222	134,180	507,054	99,522	314,466
Ohio.....	127,880	115,042	10	12,828	-----
Oklahoma.....	169,943	5,136	67,433	10,310	87,004
Oregon.....	3,992,852	1,941	1,040,100	5,879	2,944,932
Pennsylvania.....	277,722	182,944	89,079	5,509	190
Rhode Island.....	6,815	4,455	2,360	-----	-----
South Carolina.....	817,016	17,564	301,333	159,798	338,321
South Dakota.....	46,909	-----	38,533	-----	8,376
Tennessee.....	595,297	146,877	59,747	351,390	37,283
Texas.....	1,446,460	31,013	339,073	195,958	880,416
Utah.....	6,152	197	5,955	-----	-----
Vermont.....	90,880	40,810	47,171	1,560	1,333
Virginia.....	535,616	87,500	228,001	127,997	92,118
Washington.....	7,325,862	9,210	1,382,682	5,644	5,928,326
West Virginia.....	541,870	72,765	5,448	360,481	103,176
Wisconsin.....	819,607	86,242	43,545	402,884	286,836
Wyoming.....	12,863	-----	12,863	-----	-----

¹ Combined to avoid disclosing the output of individual establishments.

TABLE 11.—PRODUCTION OF LATH, FOR SPECIFIED YEARS: 1899 TO 1927

YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand
1927.....	2,372,333	\$3.40	1915.....	2,745,134	(¹)
1926.....	3,083,130	(¹)	1912.....	2,719,163	(¹)
1925.....	3,161,137	4.28	1911.....	2,971,110	\$2.61
1924.....	2,961,200	(¹)	1910.....	3,494,718	2.31
1923.....	3,328,013	4.56	1909.....	3,703,195	2.69
1922.....	2,940,714	(¹)	1908.....	2,986,684	2.27
1921.....	1,970,696	4.37	1907.....	3,663,602	2.82
1920.....	1,952,983	(¹)	1906.....	3,812,807	3.01
1919.....	1,724,078	4.81	1905.....	3,111,157	(¹)
1918.....	1,362,187	(¹)	1904.....	2,647,847	2.05
1917.....	2,281,738	(¹)	1899.....	2,523,998	1.86
1916.....	2,754,683	(¹)			

¹ No data.

TABLE 12.—PRODUCTION OF LATH, FOR PRINCIPAL STATES: 1927

STATE	Number of active mills re- porting	Quantity (thousands)	STATE	Number of active mills re- porting	Quantity (thousands)
United States.....	716	2,372,333	Florida.....	28	101,217
Washington.....	100	766,109	Wisconsin.....	51	95,332
Oregon.....	43	273,066	California.....	23	84,941
Louisiana.....	43	186,167	Texas.....	14	82,015
Mississippi.....	26	144,453	West Virginia.....	33	58,204
Minnesota.....	30	131,281	Alabama.....	27	34,084
Maine.....	46	117,756	Arkansas.....	20	31,598
Idaho.....	27	108,337	Michigan.....	34	30,896
			Other States (see Table 15).....	171	127,377

TABLE 13.—PRODUCTION OF SHINGLES, FOR SPECIFIED YEARS: 1899 TO 1927

YEAR	Quantity (thousands)	Average value per thousand	YEAR	Quantity (thousands)	Average value per thousand
1927.....	6,443,868	\$2.53	1915.....	8,459,378	(¹)
1926.....	6,008,346	(¹)	1912.....	12,037,685	(¹)
1925.....	7,324,027	2.98	1911.....	12,113,867	\$2.07
1924.....	6,862,385	(¹)	1910.....	12,976,362	2.00
1923.....	7,506,869	3.18	1909.....	14,907,371	2.03
1922.....	8,131,242	(¹)	1908.....	12,106,483	2.00
1921.....	6,843,187	2.84	1907.....	11,824,475	2.55
1920.....	6,156,416	(¹)	1906.....	11,858,260	2.04
1919.....	9,192,704	4.19	1905.....	15,340,909	(¹)
1918.....	5,690,182	(¹)	1904.....	14,546,551	1.65
1917.....	8,696,513	(¹)	1899.....	12,102,017	1.56
1916.....	9,371,333	(¹)			

¹ No data.

TABLE 14.—PRODUCTION OF SHINGLES, FOR PRINCIPAL STATES: 1927

STATE	Number of active mills re- porting	Quantity (thousands)	STATE	Number of active mills re- porting	Quantity (thousands)
United States.....	398	6,443,868	Florida.....	19	46,606
Washington.....	132	5,690,579	Michigan.....	14	31,538
Oregon.....	22	309,818	North Carolina.....	9	15,688
California.....	29	122,314	Mississippi.....	6	11,754
Louisiana.....	19	72,169	Alabama.....	9	10,747
Wisconsin.....	20	54,096	Georgia.....	10	7,350
Maine.....	49	50,854	Other States (see Table 15).....	60	20,455

TABLE 15.—ACTIVE SAWMILLS REPORTING, AND REPORTED PRODUCTION OF EACH KIND OF LUMBER, AND OF LATH AND SHINGLES, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the States shown in combination, however, reported larger quantities of lumber sawed than some of the States shown separately]

STATE	Number of active mills reporting ¹	Aggregate lumber sawed (M feet b. m.)	SOFTWOOD LUMBER SAWED (M FEET B. M.)					
			Total	Balsam fir	Cedar	Cypress	Douglas fir	Hemlock
United States.....	13, 867	34, 532, 420	28, 442, 522	15, 939	305, 964	609, 679	8, 443, 053	2, 070, 812
Alabama.....	1, 647	2, 171, 687	1, 884, 611	—	4, 607	6, 724	—	—
Arizona.....	26	169, 085	169, 085	—	—	—	64	—
Arkansas.....	460	1, 229, 481	1, 229, 009	—	—	52, 933	—	—
California and Nevada ²	160	2, 070, 811	2, 070, 618	—	30, 361	—	229, 294	—
Colorado.....	116	67, 321	67, 250	—	—	—	3, 984	—
Connecticut.....	144	55, 949	19, 170	—	67	—	—	5, 723
Delaware.....	45	16, 824	13, 151	—	—	—	—	—
Florida.....	183	907, 128	882, 588	—	113	152, 739	—	—
Georgia.....	1, 134	1, 201, 008	1, 034, 435	(³)	(³)	34, 427	—	158
Idaho.....	146	923, 986	923, 491	—	16, 789	—	82, 546	2, 228
Illinois.....	50	28, 663	800	—	—	606	—	—
Indiana.....	256	148, 492	80	—	50	(³)	—	—
Iowa and Kansas ⁴	27	16, 982	—	—	—	—	—	—
Kentucky.....	375	197, 618	16, 860	—	2, 071	1, 541	—	5, 244
Louisiana.....	237	2, 385, 724	1, 664, 987	—	4, 282	185, 543	—	—
Maine.....	407	263, 818	231, 223	6, 298	3, 640	—	—	34, 179
Maryland.....	256	67, 541	31, 585	—	—	148	—	360
Massachusetts.....	175	88, 298	60, 098	—	—	—	—	7, 617
Michigan.....	143	578, 254	138, 079	907	1, 269	—	—	111, 839
Minnesota.....	131	396, 891	371, 366	4, 001	131	—	—	—
Mississippi.....	837	2, 556, 612	2, 093, 547	—	(³)	24, 455	—	—
Missouri.....	356	189, 136	45, 940	—	—	30, 553	—	—
Montana.....	126	396, 267	396, 207	—	(³)	—	79, 883	(³)
New Hampshire.....	252	215, 912	190, 670	590	187	—	—	17, 743
New Jersey.....	24	5, 044	258	—	(³)	—	—	(³)
New Mexico.....	73	172, 517	172, 517	—	(³)	—	33, 343	—
New York.....	399	142, 505	38, 673	179	4, 127	—	—	18, 717
North Carolina.....	1, 144	1, 055, 222	821, 520	—	4, 285	31, 527	—	16, 479
Ohio.....	379	127, 880	10	—	(³)	—	—	—
Oklahoma.....	74	169, 943	154, 497	—	—	(³)	—	—
Oregon.....	379	3, 992, 852	3, 985, 032	—	54, 391	—	2, 795, 392	148, 376
Pennsylvania.....	589	277, 722	89, 269	—	—	—	—	75, 425
Rhode Island.....	16	6, 815	2, 360	—	—	—	—	—
South Carolina.....	370	817, 016	639, 654	—	945	68, 022	—	763
South Dakota.....	48	46, 909	46, 909	—	—	—	—	—
Tennessee.....	567	595, 297	97, 030	—	7, 790	7, 706	—	28, 440
Texas.....	194	1, 446, 460	1, 219, 489	—	—	9, 651	—	—
Utah.....	49	6, 152	5, 955	—	(³)	—	996	—
Vermont.....	253	90, 880	48, 504	3, 496	184	—	—	11, 411
Virginia.....	688	535, 616	320, 119	—	6, 595	3, 044	—	16, 650
Washington.....	472	7, 325, 862	7, 311, 008	—	169, 505	—	5, 216, 546	1, 266, 061
West Virginia.....	223	541, 870	108, 624	—	(³)	—	—	59, 292
Wisconsin.....	198	819, 507	330, 381	468	2, 477	—	—	244, 074
Wyoming.....	39	12, 863	12, 863	—	—	—	1, 005	—
Undistributed.....	—	—	—	—	98	80	—	33

See footnotes at end of table.

TABLE 15.—ACTIVE SAWMILLS REPORTING, AND REPORTED PRODUCTION OF EACH KIND OF LUMBER, AND OF LATH AND SHINGLES, BY STATES: 1927—Continued

[See note at head of this table, p. 485]

STATE	SOFTWOOD LUMBER SAWED (M FEET B. M.)—continued								
	Larch	Lodge-pole pine	Red-wood	Spruce	Sugar pine	Western yellow pine	White fir	White pine	Yellow pine
United States.....	288, 327	13, 255	569, 605	529, 467	282, 217	2, 798, 754	279, 737	1, 344, 466	10, 891, 247
Alabama.....	-----	-----	-----	-----	-----	-----	-----	-----	1, 873, 280
Arizona.....	-----	-----	-----	-----	-----	168, 991	(?)	-----	-----
Arkansas.....	-----	-----	-----	-----	-----	-----	-----	-----	679, 076
California and Nevada ¹	-----	51	569, 205	651	274, 890	777, 711	188, 455	-----	-----
Colorado.....	-----	5, 994	-----	7, 388	-----	47, 799	2, 065	(?)	-----
Connecticut.....	-----	-----	-----	-----	-----	-----	-----	13, 280	100
Delaware.....	-----	-----	-----	-----	-----	-----	-----	-----	13, 161
Florida.....	-----	-----	-----	-----	-----	-----	-----	-----	729, 736
Georgia.....	-----	-----	-----	-----	-----	-----	-----	1, 483	998, 359
Idaho.....	97, 163	772	-----	6, 478	-----	249, 733	57, 530	410, 252	-----
Illinois.....	-----	-----	-----	-----	-----	-----	-----	(?)	192
Indiana.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Iowa and Kansas ²	-----	-----	-----	-----	-----	-----	-----	-----	-----
Kentucky.....	-----	-----	-----	-----	-----	-----	-----	1, 572	6, 432
Louisiana.....	-----	-----	-----	-----	-----	-----	-----	-----	1, 479, 162
Maine.....	111	-----	-----	90, 935	-----	-----	-----	96, 060	-----
Maryland.....	-----	-----	-----	-----	-----	-----	-----	715	30, 362
Massachusetts.....	-----	-----	-----	1, 685	-----	-----	-----	50, 796	-----
Michigan.....	1, 017	-----	-----	2, 914	-----	-----	-----	20, 139	-----
Minnesota.....	2, 668	-----	-----	6, 769	-----	-----	-----	357, 797	-----
Mississippi.....	-----	-----	400	-----	-----	-----	-----	-----	2, 068, 691
Missouri.....	-----	-----	-----	-----	-----	-----	-----	-----	15, 387
Montana.....	130, 647	2, 013	-----	5, 979	-----	164, 197	856	12, 623	-----
New Hampshire.....	-----	-----	-----	19, 625	-----	-----	-----	152, 525	-----
New Jersey.....	-----	-----	-----	-----	-----	-----	-----	-----	185
New Mexico.....	-----	-----	-----	3, 859	-----	131, 448	3, 857	-----	-----
New York.....	(?)	-----	-----	2, 377	-----	-----	-----	16, 239	1, 032
North Carolina.....	-----	-----	-----	39, 681	-----	-----	-----	7, 212	722, 336
Ohio.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
Oklahoma.....	-----	-----	-----	-----	-----	-----	-----	-----	154, 467
Oregon.....	9, 864	700	-----	107, 343	7, 327	851, 540	9, 622	477	-----
Pennsylvania.....	-----	-----	-----	(?)	-----	-----	-----	13, 597	222
Rhode Island.....	-----	-----	-----	-----	-----	-----	-----	2, 360	-----
South Carolina.....	-----	-----	-----	-----	-----	-----	-----	-----	569, 924
South Dakota.....	-----	-----	-----	-----	-----	46, 909	-----	-----	-----
Tennessee.....	-----	-----	-----	-----	-----	-----	-----	4, 302	48, 792
Texas.....	-----	-----	-----	-----	-----	-----	-----	-----	1, 209, 838
Utah.....	-----	800	-----	1, 202	-----	2, 408	546	-----	-----
Vermont.....	(?)	-----	-----	23, 226	-----	-----	-----	10, 186	-----
Virginia.....	-----	-----	-----	50	-----	-----	-----	3, 683	290, 097
Washington.....	38, 421	-----	-----	152, 294	-----	354, 790	16, 724	96, 667	-----
West Virginia.....	-----	-----	-----	45, 122	-----	-----	-----	3, 767	426
Wisconsin.....	8, 433	-----	-----	6, 211	-----	-----	-----	68, 718	-----
Wyoming.....	-----	2, 925	-----	5, 653	-----	3, 228	52	-----	-----
Undistributed.....	3	-----	-----	25	-----	-----	30	22	-----

See footnotes at end of table.

TABLE 15.—ACTIVE SAWMILLS REPORTING, AND REPORTED PRODUCTION OF EACH KIND OF LUMBER, AND OF LATH AND SHINGLES, BY STATES: 1927—Continued

[See note at head of this table, p. 485]

STATE	HARDWOOD LUMBER SAWED (M FEET B. M.)									
	Total	Ash	Bass-wood	Beech	Birch	Chest-nut	Cotton-wood	Elm	Hick-ory	Maple
United States.....	6,089,898	136,820	145,601	154,158	326,788	263,771	103,535	160,536	51,584	774,000
Alabama.....	287,076	3,405	443	1,296	62	381	3,926	1,752	2,597	547
Arizona.....	497,472	18,199	(?)	2,170	(?)	121	12,336	14,674	3,899	16,549
California.....	193						71			
Colorado.....	71									
Connecticut.....	36,779	956	722	843	1,507	7,974	55	713	1,335	4,670
Delaware.....	3,673			540					270	95
Florida.....	24,540	2,698								
Georgia.....	166,573	11,515	132	67	57	3,243	150	50	686	380
Idaho.....	495						2,727	365	734	802
Illinois.....	27,863	586	215	119	55	(?)				
Indiana.....	148,412	3,475	3,597	18,109	52	144	1,222	2,048	819	1,311
Iowa and Kansas.....	16,982	100	150		(?)		2,080	12,830	2,804	25,263
Kentucky.....	180,758	2,746	2,060	11,390	209	9,085	900	450		180
Louisiana.....	720,737	19,736	(?)	3,425			1,863	842	5,461	4,288
Maine.....	32,595	389	887	1,547	23,721		15,087	11,750	4,009	1,01
Maryland.....	35,956	658	199	625	202	5,143	(?)	59		3,871
Massachusetts.....	28,200	912	248	4,121	2,399	4,851	(?)	(?)	884	4,292
Michigan.....	440,175	3,898	25,354	18,122	73,759		905	20,881	99	3,186
Minnesota.....	25,525	151	1,697		1,828		18,321	1,278	(?)	288,851
Mississippi.....	463,065	8,723	853	2,434	(?)					117
Missouri.....	143,196	1,852	105	75			20,386	12,143	2,660	4,247
Montana.....	60						5,225	4,840	1,620	6,052
New Hampshire.....	25,242	1,379	223	2,361	9,238	1,727	60	(?)	(?)	5,288
New Jersey.....	4,786	(?)		130	(?)	465	(?)	(?)	52	75
New Mexico.....										
New York.....	103,832	2,453	4,041	17,580	18,376	3,814	(?)	1,819	195	29,701
North Carolina.....	233,702	4,242	6,233	335	3,061	56,820		(?)	1,912	11,508
Ohio.....	127,870	2,964	1,640	17,719	(?)	3,998	268	6,003	2,825	24,342
Oklahoma.....	15,446	112					1,255	317	(?)	(?)
Oregon.....	7,820	1,035								
Pennsylvania.....	188,453	3,003	2,842	22,474	3,910	22,203	1,534			2,596
Rhode Island.....	4,455	210			100	1,346	(?)	946	3,196	32,495
South Carolina.....	177,362	10,027	72	(?)	55	724	2,755	1,439	(?)	280
South Dakota.....								411		5,598
Tennessee.....	498,267	9,530	6,031	7,793	3,237	24,121	9,941	14,687	6,882	17,808
Texas.....	226,971	8,382	75	970			568	1,014	1,636	118
Vermont.....	197	(?)					193			
Virginia.....	42,376	906	3,040	4,833	12,802	225	409	433	(?)	17,535
Washington.....	215,497	716	4,670	1,875	607	30,732	(?)	198	813	3,497
West Virginia.....	14,854				218		(?)			4,143
Wisconsin.....	433,246	3,550	19,072	12,545	7,007	86,643	(?)	83	5,706	56,215
Wyoming.....	489,126	8,293	60,913	649	164,218		699	48,825	(?)	197,979
Unaffiliated.....		19	87	11	108	11	104	97	79	20

Footnotes at end of table.

TABLE 15.—ACTIVE SAWMILLS REPORTING, AND REPORTED PRODUCTION OF EACH KIND OF LUMBER, AND OF LATH AND SHINGLES, BY STATES: 1927—Continued

[See note at head of this table, p. 485]

STATE	HARDWOOD LUMBER SAWED (M FEET B. M.)—continued							Lath (thous- ands)	Shingles (thous- ands)
	Oak	Red gum	Syca- more	Tupelo	Wal- nut	Yellow poplar	Other		
United States.....	2, 013, 053	1, 101, 112	29, 487	267, 192	65, 081	334, 604	162, 576	2, 372, 333	6, 443, 868
Alabama.....	103, 788	99, 343	1, 224	29, 743	93	36, 694	1, 782	34, 084	10, 747
Arizona.....								23, 498	55
Arkansas.....	255, 861	153, 179	4, 949	7, 138	331	1, 390	6, 632	31, 598	
California and Ne- vada.....	184							9	
Colorado.....								84, 941	122, 314
								2, 451	75
Connecticut.....	16, 882				(?)	746	363		100
Delaware.....	1, 975	743				50		260	
Florida.....	2, 660	6, 843	50	4, 620		4, 891	1, 512	101, 217	46, 606
Georgia.....	41, 337	57, 815	917	6, 009	(?)	40, 034	816	4, 575	7, 350
Idaho.....								108, 337	9, 404
Illinois.....	10, 529	2, 207	434	933	6, 137	520	717		
Indiana.....	54, 844	2, 421	2, 924	267	11, 470	3, 449	4, 683		
Iowa and Kansas.....	1, 270		50		13, 857				
Kentucky.....	109, 189	5, 941	465	353	4, 199	16, 670	5, 997	2, 164	
Louisiana.....	218, 794	262, 027	1, 853	123, 066	(?)	7, 491	53, 341	186, 167	72, 169
Maine.....	2, 094					(?)		117, 756	50, 854
Maryland.....	18, 400	2, 887	168	(?)	283	1, 779	412	120	
Massachusetts.....	4, 430					60	7, 866	61	1, 680
Michigan.....	4, 584		(?)		86		3, 710	30, 396	31, 588
Minnesota.....	2, 133							131, 281	110
Mississippi.....	147, 942	196, 561	4, 527	21, 955	79	32, 827	7, 687	144, 453	11, 754
Missouri.....	98, 504	10, 652	2, 084	435	11, 451	165	136	540	1, 000
Montana.....								19, 314	68
New Hampshire.....	4, 801					50	123	1, 812	1, 780
New Jersey.....	3, 650	189				155		10	107
New Mexico.....								22, 038	
New York.....	11, 315		(?)	(?)	(?)	151	14, 366	411	251
North Carolina.....	85, 800	27, 343	69	10, 203	184	23, 174	2, 813	14, 616	15, 588
Ohio.....	51, 651	489	471	(?)	13, 144	1, 789	507	10	
Oklahoma.....	8, 651	4, 293	320				458	3, 464	
Oregon.....	59						2, 596	273, 066	309, 818
Pennsylvania.....	87, 235	284	(?)	(?)	145	3, 132	6, 561	1, 952	88
Rhode Island.....	2, 189				(?)	300			
South Carolina.....	20, 290	77, 684	1, 996	38, 438	(?)	16, 516	1, 443	6, 318	1, 008
South Dakota.....								68	
Tennessee.....	248, 990	71, 348	6, 302	5, 741	2, 714	56, 649	6, 493	9, 533	1, 552
Texas.....	91, 539	96, 383	489	17, 511	(?)		8, 261	82, 015	1, 917
Utah.....								221	155
Vermont.....	1, 825					326	32	70	1, 040
Virginia.....	113, 325	21, 102	76	533	140	32, 731	4, 466	14, 317	50
Washington.....	869						9, 602	766, 109	5, 690, 579
West Virginia.....	179, 138	1, 478	107	170	650	52, 854	8, 025	58, 204	
Wisconsin.....	6, 326				50		1, 167	95, 332	54, 096
Wyoming.....								54	125
Undistributed.....			12	77	68	11			

¹ For explanation of difference between total number of active mills reporting, as shown in this table, and total number of establishments, as shown in Table 1, see "Comparability of number of establishments and number of mills," p. 467. The differences between the number of mills shown in this table and in Table 4 are due to the inclusion in this table and the exclusion from Table 4 of data for mills engaged exclusively in sawing lath or shingles.

² Less than 50 M feet; included in "Undistributed" item.

³ Combined to avoid disclosing the output of individual establishments.

⁴ Probably includes data for some Spanish cedar.

TABLE 16.—WOOD CONSUMED IN MANUFACTURE OF VENEERS, FOR SPECIFIED YEARS: 1905 TO 1927

YEAR	Quantity (M feet log scale)	YEAR	Quantity (M feet log scale)	YEAR	Quantity (M feet log scale)
1927.....	961,561	1919.....	576,581	1908.....	382,542
1925.....	734,599	1911.....	444,886	1907.....	348,523
1923.....	645,793	1910.....	477,479	1906.....	329,186
1921.....	400,388	1909.....	435,981	1905 ¹	181,146

¹ Compiled by the Forest Service, United States Department of Agriculture.

TABLE 17.—WOOD CONSUMED IN MANUFACTURE OF VENEERS, FOR SELECTED STATES: 1927, 1925, AND 1923

STATE	QUANTITY (M FEET LOG SCALE)			PER CENT DISTRIBUTION		
	1927	1925	1923	1927	1925	1923
United States.....	961,561	734,599	645,793	100.0	100.0	100.0
Washington.....	140,319	112,484	53,510	14.6	15.3	8.3
Mississippi.....	80,218	57,268	45,496	8.3	7.8	7.0
North Carolina.....	78,171	64,640	53,196	8.1	8.8	8.2
Florida.....	77,321	29,999	49,016	8.0	4.1	7.6
Arkansas.....	57,611	58,122	64,117	6.0	7.9	9.9
Alabama.....	41,424	38,561	43,214	4.3	5.2	6.7
Georgia.....	38,646	11,412	17,092	4.0	1.5	2.6
Wisconsin.....	37,864	34,292	37,513	3.9	4.7	5.8
South Carolina.....	35,311	29,669	20,783	3.7	4.0	3.2
Louisiana.....	35,012	34,395	23,728	3.6	4.7	3.7
Virginia.....	33,319	26,416	21,179	3.5	3.6	3.3
Oregon.....	32,091	29,793	26,369	3.3	4.0	4.1
Texas.....	29,216	5,711	6,564	3.0	.8	1.0
New York.....	27,364	24,095	16,382	2.8	3.3	2.5
Tennessee.....	25,586	40,454	30,983	2.7	5.5	4.8
Indiana.....	25,092	15,474	18,001	2.6	2.1	2.8
Kentucky.....	24,193	23,309	25,020	2.5	3.2	3.9
Missouri.....	20,825	17,380	21,811	2.2	2.4	3.4
Michigan.....	20,811	18,096	20,068	2.2	2.5	3.1
California.....	18,379	10,454	(¹)	1.9	1.4	(¹)
Ohio.....	13,259	4,360	3,163	1.4	.6	.5
Vermont.....	12,217	10,255	10,505	1.3	1.4	1.6
Illinois.....	11,414	11,967	13,722	1.2	1.6	2.1
Maine.....	11,124	(¹)	(¹)	1.2	(¹)	(¹)
Maryland.....	6,094	3,366	4,551	.6	.5	.7
Other States ²	28,680	22,627	19,810	3.0	3.1	3.1

¹ Included in "Other States."² For 1927—Colorado, Connecticut, Delaware, Iowa, Kansas, Massachusetts, Minnesota, New Hampshire, New Jersey, Pennsylvania, Rhode Island, and West Virginia; 1925—Iowa, Kansas, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, Pennsylvania, and West Virginia; 1923—California, Delaware, Iowa, Kansas, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, Pennsylvania, and West Virginia.

TABLE 18.—WOOD CONSUMED IN MANUFACTURE OF VENEERS, BY KINDS OF WOOD: 1927, 1925, AND 1923

KIND OF WOOD	QUANTITY (M FEET LOG SCALE)			PER CENT DISTRIBUTION		
	1927	1925	1923	1927	1925	1923
Total.....	961,561	734,599	645,793	100.0	100.0	100.0
Domestic:						
Red gum.....	250,247	237,465	220,703	26.0	32.3	34.2
Tupelo.....	113,729	48,311	36,396	11.8	6.6	5.6
Douglas fir.....	101,220	101,869	55,123	10.5	13.9	8.5
Yellow pine.....	92,153	45,818	65,100	9.6	6.2	10.1
Yellow poplar.....	56,899	50,770	45,376	5.9	6.9	7.0
Spruce.....	53,642	20,033	11,273	5.6	2.7	1.7
Birch.....	51,331	51,490	43,936	5.3	7.0	6.8
Cottonwood.....	43,456	39,869	40,404	4.5	5.4	6.3
Maple.....	24,706	23,922	23,310	2.6	3.3	3.6
Walnut.....	20,786	17,573	15,452	2.2	2.4	2.4
Oak.....	19,502	20,661	25,274	2.0	2.8	3.9
Cedar.....	19,409	17,093	11,137	2.0	2.3	1.7
Elm.....	16,945	8,503	9,570	1.8	1.2	1.5
Western pine.....	13,379	4,876	4,531	1.4	.7	.7
Basswood.....	11,885	9,413	8,771	1.2	1.3	1.4
Beech.....	11,268	4,708	5,210	1.2	.6	.8
Sycamore.....	6,192	4,836	4,182	.6	.7	.6
Magnolia.....	4,666	3,786	1,439	.5	.5	.2
White fir.....	4,059	(¹)	(¹)	.4	(¹)	(¹)
Cypress.....	3,450	4,511	3,617	.4	.6	.6
White pine.....	3,027	(¹)	(¹)	.3	(¹)	(¹)
Ash.....	1,262	1,103	1,114	.1	.2	.2
Other.....	² 20,780	4,255	3,536	2.2	.6	.5
Imported:						
Mahogany.....	11,954	7,471	6,664	1.2	1.0	1.0
Spanish cedar.....	4,829	5,149	2,714	.5	.7	.4
Other.....	³ 785	1,114	961	.1	.1	.2

¹ Included in "Other" domestic.² Alder, bay, butternut, cherry, chestnut, hackberry, hemlock, hickory, holly, myrtle, pecan, redwood, sugar pine, willow, and 16,649 M feet of wood not specified.³ African walnut, ebony, English oak, gonzales alves, iauan, madrona, Mexican cedar, oriental walnut, padauk, Philippine wood, rosewood, salano, satinwood, teak, thuya, Zebrawood, and 146 M feet of foreign woods not specified.

TABLE 19.—WOOD CONSUMED AND VENEERS PRODUCED, BY KINDS OF WOOD:
1927

KIND OF WOOD	Total quantity of logs used, M feet log scale	LOGS USED AND VENEERS PRODUCED—BOTH ITEMS REPORTED		Logs used— veneer production not re- ported, M feet log scale
		Logs used, M feet log scale	Veneers produced, M square feet	
Aggregate.....	961,561	676,067	5,347,788	285,494
Domestic, total.....	943,993	663,349	5,164,935	280,644
Ash.....	1,262	1,048	6,485	214
Basswood.....	11,885	9,692	70,213	2,193
Beech.....	11,268	3,258	41,057	8,010
Birch.....	51,831	45,777	507,803	5,554
Cedar.....	19,409	19,346	172,866	63
Cottonwood.....	43,456	35,774	325,084	7,682
Cypress.....	3,450	1,846	32,254	1,604
Douglas fir.....	101,220	101,220	599,138	-----
Elm.....	16,945	7,054	78,411	9,891
Magnolia.....	4,666	4,123	42,250	543
Maple.....	24,706	13,710	143,341	10,996
Oak.....	19,502	17,057	137,638	2,445
Red gum.....	250,247	160,658	1,046,445	99,589
Spruce.....	53,642	49,072	324,099	4,570
Sycamore.....	6,192	4,947	57,820	1,245
Tupelo.....	113,729	69,398	408,360	44,331
Walnut.....	20,786	20,319	386,603	467
Western pine.....	13,379	13,125	76,651	254
White pine.....	3,027	39	197	2,988
White fir.....	4,059	4,059	21,141	-----
Yellow pine.....	92,153	36,468	199,185	55,685
Yellow poplar.....	56,899	50,351	454,056	6,548
Other ¹	20,780	5,008	33,838	15,772
Imported, total.....	17,568	12,718	182,853	4,850
Mahogany.....	11,954	7,140	141,707	4,814
Spanish cedar.....	4,829	4,829	32,887	-----
Other.....	785	749	8,259	36

¹ Includes 16,649 M feet, kinds of wood not specified.TABLE 20.—PRODUCTION OF TIGHT COOPERAGE STOCK, FOR SPECIFIED YEARS:
1905 TO 1927

YEAR	Staves (thousands)	Heading (thousands of sets)	YEAR	Staves (thousands)	Heading (thousands of sets)
1927.....	324,127	26,445	1910.....	355,660	26,074
1925.....	240,023	23,052	1909.....	379,231	20,691
1923.....	222,507	19,342	1908.....	345,280	20,515
1921.....	255,047	20,505	1907.....	385,232	27,693
1919.....	353,825	24,274	1906.....	267,827	17,774
1918.....	286,401	20,711	1905 ¹	241,193	12,959
1911.....	357,198	30,310			

¹ Compiled by the Forest Service, U. S. Department of Agriculture.

TABLE 21.—PRODUCTION OF TIGHT STAVES (THOUSANDS), BY CLASSES: 1927, 1925, AND 1923

CLASS	1927	1925	1923
Aggregate.....	324, 127	240, 023	222, 507
Oil and tierce.....	154, 117	112, 717	129, 082
Half-barrel and keg.....	26, 191	26, 712	40, 137
Spirit and wine.....	16, 906	14, 296	13, 135
Pork.....	9, 580	4, 007	7, 937
Other ¹	117, 333	82, 291	32, 216

¹ Includes staves, class not specified, as follows: 1927, 78,698 thousand; 1925, 30,024 thousand.

TABLE 22.—PRODUCTION OF TIGHT STAVES (THOUSANDS), BY CLASSES AND BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the "Other States," however, reported larger quantities of tight staves than some of the States shown separately]

STATE	Total	Oil and tierce	Half-barrel and keg	Spirit and wine	Pork	Not specified	Other ¹
United States.....	324, 127	154, 117	26, 191	16, 906	9, 580	78, 698	38, 635
Alabama.....	9, 837	8, 802	-----	498	340	197	-----
Arkansas.....	65, 136	44, 812	450	13, 652	2, 141	2, 251	1, 830
Georgia.....	8, 154	7, 769	-----	297	88	-----	-----
Kentucky.....	17, 293	16, 263	250	697	83	-----	-----
Louisiana.....	22, 118	20, 072	-----	37	1, 847	-----	162
Mississippi.....	11, 695	10, 505	-----	300	216	494	180
Missouri.....	7, 409	5, 622	1, 092	300	395	-----	-----
New Hampshire.....	24, 480	-----	8, 533	-----	213	13, 898	1, 836
Tennessee.....	16, 541	11, 456	-----	795	60	-----	4, 230
Other States ¹	141, 464	28, 816	15, 866	330	4, 197	61, 858	30, 397

¹ Cut-offs, mill run, and staves for pails, tubs, and containers for food, French claret, and sirup.

² California, Florida, Minnesota, North Carolina, Oklahoma, Oregon, Pennsylvania, South Carolina, Texas, Washington, and West Virginia.

TABLE 23.—PRODUCTION OF TIGHT STAVES (THOUSANDS), BY KINDS OF WOOD AND BY CLASSES: 1927

CLASS	Total	Oak	Spruce	Douglas fir	Pine	Gum	Ash	Other ¹
United States.....	324, 127	139, 827	81, 934	45, 299	25, 947	22, 749	5, 315	3, 056
Oil and tierce.....	154, 117	109, 976	-----	20, 191	1, 467	19, 780	1, 652	1, 051
Half-barrel and keg.....	26, 191	1, 559	-----	14, 611	8, 533	-----	70	1, 418
Spirit and wine.....	16, 906	16, 906	-----	-----	-----	-----	-----	-----
Pork.....	9, 580	1, 400	-----	213	243	-----	3, 591	217
Not specified.....	78, 698	1, 521	55, 257	6, 581	13, 898	1, 394	2	45
Other.....	38, 635	8, 465	26, 677	-----	1, 836	1, 332	-----	325

¹ Basswood, birch, chestnut, cottonwood, elm, hackberry, hemlock, maple, pecan, tupelo, and 975 thousand staves not specified.

TABLE 24.—PRODUCTION OF TIGHT HEADING (THOUSANDS OF SETS), BY CLASSES: 1927, 1925, AND 1923

CLASS	1927	1925	1923
Aggregate.....	26, 445	23, 052	19, 342
Oil and tierce.....	12, 048	9, 468	10, 258
Half-barrel and keg.....	2, 527	2, 061	4, 551
Spirit and wine.....	972	1, 345	640
Pork.....	503	814	867
Other ¹	10, 395	9, 364	3, 026

¹ Includes heading, class not specified, as follows: 1927, 7,157 thousand sets; 1925, 4,288 thousand sets.

TABLE 25.—PRODUCTION OF TIGHT HEADING (THOUSANDS OF SETS), BY CLASSES AND BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the "Other States," however, reported larger quantities of tight heading than some of the States shown separately]

STATE	Total	Oil and tierce	Half-barrel and keg	Spirit and wine	Pork	Not specified	Other ¹
United States.....	26, 445	12, 048	2, 527	972	503	7, 157	3, 238
Arkansas.....	5, 194	3, 079	50	713	137	784	431
Kentucky.....	684	655	11	14	4	-----	-----
Louisiana.....	2, 378	2, 139	-----	15	169	55	-----
New Hampshire.....	1, 838	-----	999	-----	5	834	-----
Tennessee.....	1, 712	1, 237	-----	169	54	120	132
Other States ¹	14, 639	4, 938	1, 467	61	134	5, 364	2, 675

¹ Mill run and shrap, pall, and tub heading.

¹ Alabama, California, Florida, Georgia, Maine, Minnesota, Mississippi, Missouri, North Carolina, Oklahoma, Oregon, Texas, and Washington.

TABLE 26.—PRODUCTION OF TIGHT HEADING (THOUSANDS OF SETS), BY KINDS OF WOOD AND BY CLASSES: 1927

CLASS	Total	Oak	Spruce	Douglas fir	Gum	Pine	Ash	Hemlock	Other ¹
United States.....	26, 445	10, 630	7, 142	3, 243	2, 480	2, 136	421	236	157
Oil and tierce.....	12, 048	8, 535	24	1, 258	1, 853	138	209	5	26
Half-barrel and keg.....	2, 527	53	21	1, 147	-----	999	4	231	72
Spirit and wine.....	972	972	-----	-----	-----	-----	-----	-----	-----
Pork.....	503	162	-----	121	13	5	193	-----	9
Not specified.....	7, 157	330	4, 647	717	614	834	15	-----	-----
Other.....	3, 238	578	2, 450	-----	-----	160	-----	-----	50

¹ Basswood, 11,000 sets; birch, 7,000 sets; elm, 11,000 sets; maple, 28,000 sets; not specified, 100,000 sets.

TABLE 27.—PRODUCTION OF SLACK COOPERAGE STOCK, FOR SPECIFIED YEARS: 1906 TO 1927

YEAR	Staves (thousands)	Heading (thousands of sets)	Hoops (thousands)	YEAR	Staves (thousands)	Heading (thousands of sets)	Hoops (thousands)
1927.....	961, 782	59, 337	134, 596	1911.....	1, 328, 968	106, 407	353, 215
1925.....	937, 597	71, 371	149, 167	1910.....	1, 460, 878	97, 037	295, 712
1923.....	893, 682	80, 477	153, 954	1909.....	2, 029, 548	140, 234	375, 793
1921.....	893, 621	66, 747	137, 380	1908.....	1, 557, 644	123, 849	336, 484
1919.....	1, 121, 324	87, 381	140, 772	1907.....	1, 175, 977	106, 074	480, 570
1918.....	1, 009, 971	60, 751	332, 684	1906.....	1, 097, 063	129, 555	330, 892

TABLE 28.—PRODUCTION OF SLACK STAVES, HEADING, AND HOOPS, BY KINDS OF WOOD: 1927, 1925, AND 1923

CLASS OF PRODUCT AND KIND OF WOOD	1927	1925	1923
Staves (thousands), total.....	961,782	937,597	893,682
Red gum.....	315,270	342,434	321,133
Pine.....	236,358	212,416	203,369
Elm.....	100,065	101,011	70,125
Tupelo.....	76,621	31,529	67,682
Ash.....	62,865	47,423	54,234
Cottonwood.....	41,595	59,730	38,550
Douglas fir.....	38,566	52,148	27,351
Spruce.....	35,125	15,759	(¹)
Yellow poplar.....	12,499	12,289	(¹)
Hackberry.....	7,164	(¹)	(¹)
Oak.....	6,985	9,044	16,556
Other.....	28,669	53,814	94,682
Heading (thousands of sets), total.....	59,337	71,371	80,477
Pine.....	32,424	31,867	43,718
Red gum.....	10,348	12,050	14,678
Tupelo.....	2,970	976	1,931
Birch.....	2,922	4,424	3,969
Spruce.....	2,695	1,814	(¹)
Douglas fir.....	1,607	1,466	1,085
Beech.....	1,326	2,803	3,059
Basswood.....	1,323	2,930	2,238
Cottonwood.....	842	4,480	1,940
Willow.....	832	(¹)	(¹)
Other.....	2,048	8,561	7,859
Hoops (thousands), total.....	134,596	149,167	153,954
Elm.....	134,200	147,390	149,163
Other.....	396	1,777	4,791

¹ Included in "Other."

TABLE 29.—PRODUCTION OF SLACK STAVES (THOUSANDS), BY KINDS OF WOOD AND BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the "Other States," however, reported larger quantities of slack staves than some of the States shown separately]

STATE	Total	Red gum	Pine	Elm	Tupelo	Ash
United States.....	961,782	315,270	236,358	100,065	76,621	62,865
Alabama.....	32,857	2,763	30,094			
Arkansas.....	271,861	129,995		60,419	21,476	43,078
Florida.....	23,215		23,215			
Georgia.....	18,272	185	16,387			
Louisiana.....	59,287	26,873	697	5,740		9,859
Maine.....	8,337		1,050			
Maryland.....	10,878	120	8,904			
Massachusetts.....	300		300			
Mississippi.....	77,953	56,899	781	4,164	6,836	928
Missouri.....	90,942	53,033		16,173	4,203	7,276
New Hampshire.....	1,332		932			
North Carolina.....	78,134	885	33,099		44,106	
Ohio.....	2,315			2,180		
Tennessee.....	30,498	11,525		6,819		1,274
Virginia.....	123,013	480	120,179			
Washington.....	13,786					
West Virginia.....	679					
Other States ¹	118,123	32,512	720	4,570		450

STATE	Cotton-wood	Douglas fir	Spruce	Yellow poplar	Hack-berry	Oak	Other ²
United States.....	41,595	38,566	35,125	12,499	7,164	6,985	23,669
Alabama.....							
Arkansas.....	13,764				3,129		
Florida.....				100		700	900
Georgia.....					2,910		4,299
Louisiana.....	8,909						
Maine.....			4,451				2,836
Maryland.....				186		1,483	185
Massachusetts.....							
Mississippi.....	5,245						3,100
Missouri.....	5,007				500	2,750	2,000
New Hampshire.....							400
North Carolina.....						44	
Ohio.....						20	115
Tennessee.....	6,220			75	625	1,200	2,760
Virginia.....				2,354			
Washington.....		3,763	10,023				
West Virginia.....						615	64
Other States ¹	2,450	34,803	20,651	9,784		173	12,010

¹ California, Illinois, Kentucky, Minnesota, New York, Oregon, Pennsylvania, South Carolina, and Wisconsin.

² Balsam fir, basswood, beech, birch, cedar, chestnut, cypress, hemlock, maple, sycamore, white fir, willow, and 1,993 thousands, woods not specified.

TABLE 30.—PRODUCTION OF SLACK HEADING (THOUSANDS OF SETS), BY KINDS OF WOOD AND BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing the output of individual establishments. Certain of the "Other States," however, reported larger quantities of slack heading than some of the States shown separately]

STATE	Total	Pine	Red gum	Tupelo	Birch	Spruce
United States.....	59,337	32,424	10,348	2,970	2,922	2,695
Alabama.....	20,806	19,217	1,209	180		
Florida.....	717	717				
Georgia.....	7,482	3,212	4,150			
Kentucky.....	12		4			
Louisiana.....	1,484	62				
Maine.....	438	278				
Maryland.....	125	125			3	100
Massachusetts.....	765	708				
Minnesota.....	1,223				206	
Mississippi.....	508	58	450			
New Hampshire.....	288	263				
New York.....	348	5				
North Carolina.....	3,486	950	1,410	1,126		
South Carolina.....	4,954	3,661	1,053	200		
Virginia.....	3,498	2,298	10	1,190		
Washington.....	1,014					910
Other States ¹	12,409	870	2,062	274	2,713	1,685

STATE	Douglas fir	Beech	Bass-wood	Cotton-wood	Willow	Other ²
United States.....	1,607	1,326	1,323	842	832	2,048
Georgia.....						100
Kentucky.....						8
Louisiana.....				590	832	
Maine.....		5				52
Massachusetts.....						57
Minnesota.....			708	120		189
New Hampshire.....						25
New York.....		78				265
South Carolina.....						40
Washington.....	104					
Other States ¹	1,503	1,243	615	132		1,312

¹ Arkansas, California, Indiana, Michigan, Missouri, Oregon, Pennsylvania, Tennessee, Texas, and Wisconsin.

² Ash, balsam fir, chestnut, cypress, elm, hemlock, maple, oak, poplar, sycamore, white fir, and 57,000 sets of woods not specified.

TABLE 31.—PRODUCTION OF HOOPS (THOUSANDS), BY KINDS OF WOOD AND BY STATES: 1927

STATE	Total	Elm	Other ¹
United States.....	134,596	134,200	396
Arkansas.....	28,165	28,165	
Indiana.....	13,978	13,978	
Ohio.....	21,215	21,215	
Other States ¹	71,238	70,842	396

¹ Oak and pine.

² Illinois, Kentucky, Louisiana, Michigan, Mississippi, Missouri, New York, Tennessee, and Virginia.

TABLE 32.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. The "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY					Horse- power	Salaries	Wages	Contract work 1	Cost of materials, supplies, fuel, and power 2	Value of products	Value added by manu- facture 3
		Total	Pro- prietors and firm mem- bers	Salari- ed officers and em- ployees	Wage earners (average for the year)								
United States	7,510	441,793	6,514	21,333	413,946	1,781,794	\$51,956,991	\$413,361,954	\$28,483,260	\$493,959,120	\$1,214,045,083	\$720,086,563	
Alabama	814	29,655	869	1,173	27,613	87,308	2,420,260	18,028,903	1,807,165	20,586,130	54,205,960	33,619,830	
Arizona	14	1,915	8	129	1,778	6,361	372,162	1,986,011	60,863	1,243,430	4,462,309	3,218,879	
Arkansas	306	22,345	214	1,321	20,810	89,217	3,033,507	17,137,874	1,675,319	23,119,347	57,680,468	34,570,121	
California	140	26,359	90	1,360	24,909	125,511	3,382,659	34,361,606	605,071	20,304,790	69,753,803	49,449,013	
Colorado	62	1,310	58	62	1,190	4,500	114,336	1,278,036	70,688	442,773	2,368,366	1,925,593	
Connecticut	56	543	57	20	466	2,526	44,796	520,802	77,583	402,362	1,357,287	954,925	
Delaware	14	213	10	16	178	941	38,576	124,845	8,336	197,010	475,495	278,455	
Florida	146	16,001	88	666	15,247	47,183	1,684,433	12,248,916	518,010	10,854,638	32,437,301	21,582,663	
Georgia	555	17,379	557	559	16,263	50,408	1,153,204	9,095,568	1,076,152	12,313,075	30,786,387	18,473,312	
Idaho	96	9,929	78	465	9,386	53,685	1,219,930	12,887,588	1,540,550	10,046,154	31,960,296	21,614,142	
Illinois	26	1,325	14	115	1,196	5,414	360,480	1,109,642	67,706	2,766,904	5,304,522	2,537,618	
Indiana	140	3,333	136	276	2,921	18,896	690,882	3,141,466	103,708	6,382,722	12,862,639	6,469,917	
Iowa	108	3,656	97	304	3,255	773,202	2,847,550	521,713	3,881,332	12,201,912	6,320,580	3,610,865	
Kentucky	224	33,986	95	1,972	31,919	106,416	4,545,692	27,145,035	1,638,389	30,665,758	85,676,623	55,010,865	
Louisiana	185	4,255	172	185	3,898	25,621	335,715	3,613,685	678,850	4,290,883	10,664,347	6,373,464	
Maine	106	1,115	117	55	943	4,472	138,326	737,334	135,891	937,880	2,606,206	1,738,376	
Maryland	79	996	73	70	853	7,820	158,541	909,071	201,343	1,904,204	3,928,354	2,024,150	
Massachusetts	99	13,611	62	560	12,989	85,942	1,513,101	14,787,254	1,162,929	12,262,329	37,486,955	26,203,626	
Michigan	52	7,240	31	280	6,929	20,599	633,843	8,629,595	1,162,548	10,344,132	19,380,443	9,063,313	
Minnesota	467	32,136	426	1,594	30,116	102,140	3,046,051	24,043,162	2,208,490	32,322,857	79,314,218	46,991,361	
Mississippi	108	3,637	64	240	3,333	12,093	649,670	2,965,988	367,697	5,241,690	10,839,012	5,567,322	
Missouri	72	3,853	79	220	3,554	7,759	567,436	4,322,010	187,564	3,798,878	10,464,150	6,065,272	
Montana	165	2,560	150	104	2,306	15,008	164,349	2,499,712	208,106	6,140,404	10,073,216	3,937,812	
New Hampshire	12	125	10	12	103	325	22,731	112,831	208,106	179,041	395,501	3,216,460	
New Jersey	34	1,868	34	91	1,743	7,415	154,692	1,622,581	896,691	1,197,952	4,667,695	3,469,743	

See footnotes at end of table.

TABLE 32.—GENERAL STATISTICS, BY STATES: 1927—Continued

[This table presents statistics for all States for which separate figures can be given without disclosing operations of individual establishments. The "Other States," however, reported larger values of products than some of the States shown separately]

STATE	PERSONS ENGAGED IN THE INDUSTRY						Horse-power	Salaries	Wages	Contract work ¹	Cost of materials, supplies, fuel, and power ²	Value of products	Value added by manu- facture ³
	Num-ber of lish- estab- ments	Total	Wage earners (average for the year)										
			Pro- prietors and firm mem- bers	Salari- ed officers and em- ployees									
New York.....	166	2, 649	153	201	2, 295	18, 194	433, 007	2, 907, 176	490, 410	4, 398, 451	9, 934, 598	5, 536, 147	
North Carolina.....	597	19, 743	604	736	18, 403	57, 700	1, 788, 463	12, 933, 467	1, 321, 782	16, 142, 724	38, 764, 039	22, 621, 315	
Ohio.....	167	2, 056	162	164	1, 730	12, 138	420, 555	1, 891, 839	105, 486	3, 784, 052	7, 993, 364	4, 200, 312	
Oklahoma.....	27	2, 659	18	212	2, 431	10, 725	322, 875	2, 038, 624	169, 727	2, 058, 909	5, 403, 635	3, 344, 726	
Oregon.....	353	31, 929	266	1, 335	30, 328	150, 917	3, 732, 715	40, 788, 696	1, 784, 480	47, 632, 434	112, 242, 264	64, 600, 830	
Pennsylvania.....	238	4, 080	304	224	3, 552	15, 332	492, 419	3, 548, 683	694, 080	3, 684, 651	10, 673, 437	6, 988, 788	
Rhode Island.....	9	67	10	-----	57	41, 435	-----	48, 811	389, 800	45, 546	136, 004	90, 548	
South Carolina.....	207	15, 327	173	621	14, 533	41, 385	1, 316, 904	9, 338, 328	389, 011	8, 992, 124	24, 153, 185	15, 161, 061	
South Dakota.....	39	830	37	39	764	3, 419	84, 652	727, 172	6, 907	8, 480, 965	1, 543, 443	1, 056, 478	
Tennessee.....	241	11, 768	212	866	10, 690	36, 521	1, 955, 171	8, 359, 459	698, 151	16, 313, 916	36, 667, 141	20, 353, 225	
Texas.....	163	17, 272	135	880	16, 257	54, 426	1, 888, 533	14, 271, 709	1, 146, 091	15, 688, 462	43, 698, 000	28, 010, 438	
Vermont.....	127	1, 840	129	59	1, 652	15, 057	109, 603	1, 533, 831	204, 935	1, 633, 768	4, 551, 943	2, 918, 240	
Virginia.....	305	8, 201	315	359	7, 561	32, 134	750, 546	6, 195, 365	1, 041, 753	6, 494, 788	18, 404, 498	11, 966, 650	
Washington.....	538	58, 528	250	2, 539	55, 739	342, 771	7, 536, 952	79, 259, 140	1, 438, 999	117, 441, 134	237, 566, 442	120, 066, 308	
West Virginia.....	95	8, 134	62	382	7, 690	22, 407	1, 003, 943	9, 415, 263	1, 098, 749	6, 357, 894	22, 742, 119	16, 384, 225	
Wisconsin.....	128	16, 348	62	829	15, 457	53, 805	2, 105, 603	15, 860, 425	1, 806, 537	17, 287, 776	45, 714, 935	28, 417, 159	
Wyoming.....	15	516	11	36	469	1, 734	82, 375	489, 901	-----	198, 070	873, 340	675, 270	
Other States ⁴	15	501	15	36	450	1, 734	113, 891	636, 820	8, 000	1, 420, 926	2, 418, 929	998, 003	

¹ See footnote 1, Table 1.

² Data for cost of fuel and power not called for separately on schedule.

³ Value of products less cost of materials, supplies, fuel, and power (See secs. 13 and 21, pp. 9 and 10.)

⁴ Iowa, 5 establishments; Kansas, 3; Utah, 7

LEADING LUMBER-PRODUCING STATES AND YEARS OF PEAK PRODUCTION

[Prepared by the United States Department of Agriculture, Forest Service]

The distinction of standing first in quantity of lumber sawed in any year has been gained by six States at different periods. Table 33 shows the leading States in all years of record; also the year in which each of the States produced its peak cut, and the rank it held among all States in that year.

TABLE 33.—LEADING LUMBER-PRODUCING STATE IN EACH YEAR OF RECORD AND YEAR OF PEAK PRODUCTION IN EACH STATE: 1839 TO 1927

[Sources: 1839 to 1904, Bureau of the Census; 1905 to 1927, except 1913, 1915, 1916, 1917, and 1918, Bureau of the Census and Forest Service; 1913, 1915, 1916, 1917, and 1918, Forest Service]

LEADING STATE IN EACH YEAR OF RECORD

YEAR	State	YEAR	State
1839.....	New York.	1899.....	Wisconsin.
1849.....	Do.	1904.....	Do.
1859.....	Pennsylvania.	1905-1913.....	Washington.
1869.....	Michigan.	1914.....	Louisiana.
1879.....	Do.	1915-1927.....	Washington.
1889.....	Do.		

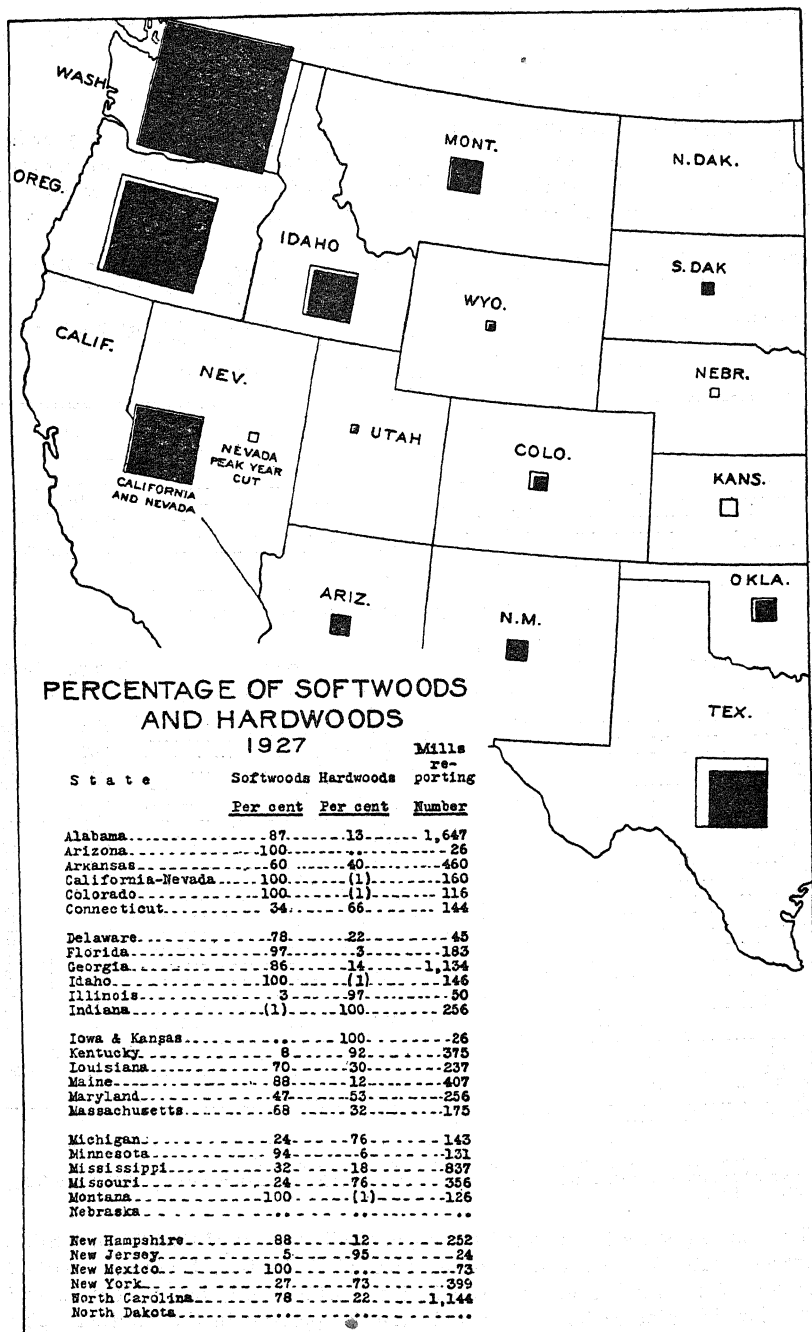
YEAR OF PEAK PRODUCTION IN EACH STATE¹

STATE	Peak year	Rank	STATE	Peak year	Rank
Alabama.....	1925	5	Nevada.....	1869	34
Arizona.....	1927	28	New Hampshire.....	1907	22
Arkansas.....	1909	5	New Jersey.....	1879	27
California.....	1926	5	New Mexico.....	1927	26
Colorado.....	1904	34	New York.....	1869	3
Connecticut.....	1909	34	North Carolina.....	1914	4
Delaware.....	1909	40	North Dakota.....	1899	14
District of Columbia.....	1882	10	Ohio.....	1899	29
Florida.....	1916	9	Oklahoma.....	1916	2
Georgia.....	1925	10	Oregon.....	1926	4
Idaho.....	1925	10	Pennsylvania.....	1899	4
Illinois.....	1899	27	Rhode Island.....	1907	42
Indiana.....	1899	13	South Carolina.....	1923	13
Iowa.....	1889	12	South Dakota.....	1924	35
Kansas.....	1859	22	Tennessee.....	1909	16
Kentucky.....	1907	17	Texas.....	1907	3
Louisiana.....	1917	2	Utah.....	1879	33
Maine.....	1909	19	Vermont.....	1889	24
Maryland.....	1909	31	Virginia.....	1909	6
Massachusetts.....	1908	28	Washington.....	1926	1
Michigan.....	1889	1	West Virginia.....	1909	13
Minnesota.....	1899	3	Wisconsin.....	1899	1
Mississippi.....	1925	4	Wyoming.....	1911	39
Missouri.....	1899	24			
Montana.....	1923	20	United States ¹	1907	-----
Nebraska.....	1859	-----			

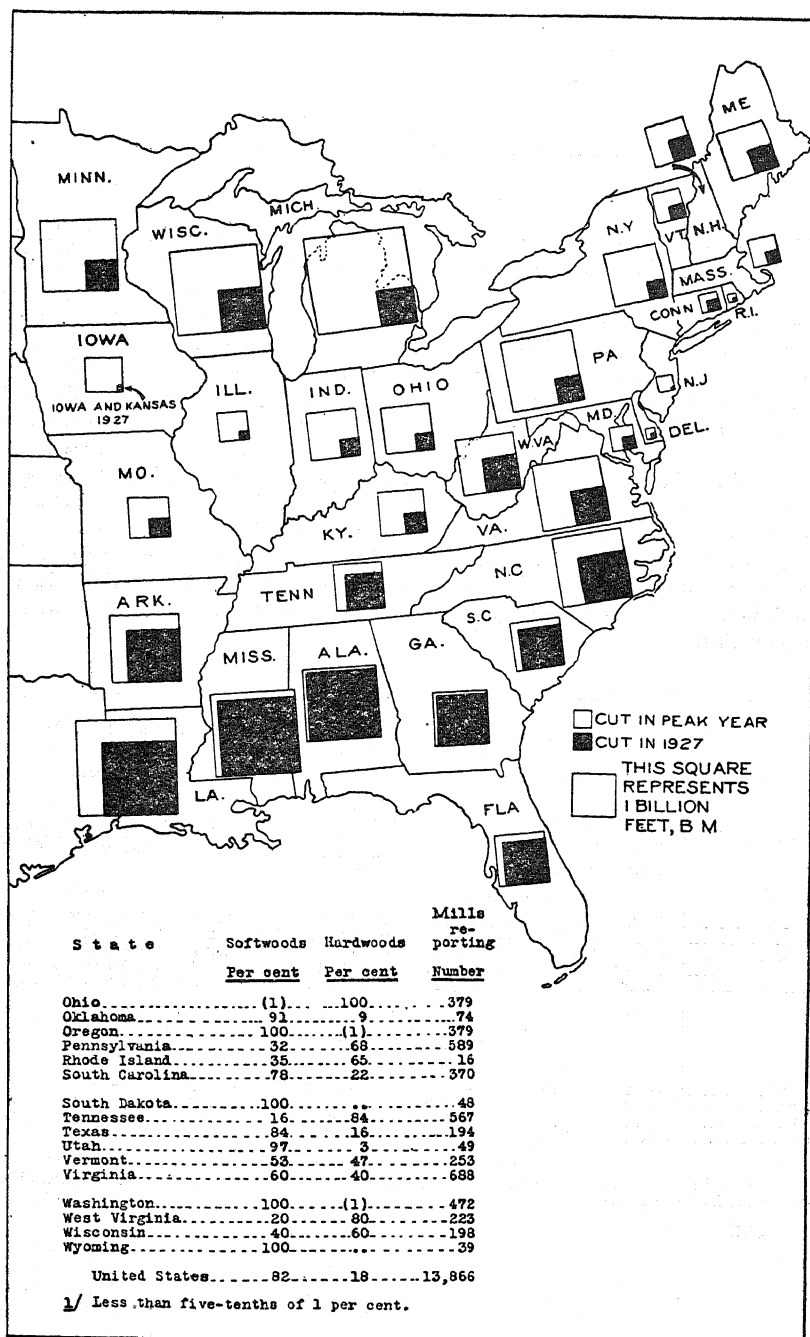
¹ In a few Western States the true peak has apparently not been reached.

² Reported production (1907), 40,300,000,000 board feet; estimated production (average of 1906 and 1907), 46,000,000,000 feet.

The maps on pages 500 and 501 show graphically the cut of 1927 in each State contrasted with the greatest recorded production in that State. A marked reduction of the lumber cut appears in the Northeastern, Lake, Central, and North Carolina pine regions. Less reduction is apparent in the Southern pine region and in the West. Two States, Arizona and New Mexico, showed a larger cut in 1927 than in any preceding year.



**LUMBER PRODUCTION, RELATIVE SIZE OF CUT
IN PEAK YEAR OF**



BY STATES, 1927 AND RELATIVE SIZE OF CUT
STATE: 1839-1927

PLANING-MILL PRODUCTS

[A preliminary report for this industry was issued under date of March 6, 1929]

Description of the industry.—This industry embraces "independent" planing mills; that is, planing mills not operated in conjunction with sawmills. (Planing mills operated in connection with sawmills are classified in the lumber and timber products industry.) The principal planing-mill products are dressed lumber, sash, doors, blinds, interior woodwork, and molding.

Detailed statistics of products.—The schedules used at the censuses for 1925 and 1927 called for detailed data in regard to the principal classes of planing-mill products manufactured. Some of the manufacturers, however, including several of the more important ones, failed to supply these data. This necessitated in some cases the making of estimates and in others the inclusion of the total output of the establishment in question in the item "Miscellaneous millwork." These facts should be given consideration in any analytical study of the planing-mill statistics. The detailed statistics given in Tables 3 and 4, pages 503 and 504, cover the production both of independent planing mills (mills classified in the "Planing-mill products" industry) and of planing mills operated in conjunction with sawmills.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	4,561	96,589	\$126,139,713	\$321,443,318	\$581,633,737	\$260,190,419	630,674
1925-----	4,761	111,329	146,592,039	403,226,767	710,861,267	307,634,500	597,103
1923-----	4,215	103,008	133,328,599	401,173,813	692,784,284	291,610,471	493,424
1921-----	4,366	78,033	95,954,153	272,081,818	462,648,874	190,567,056	(?)
1919-----	5,309	86,956	91,976,526	299,265,652	500,438,258	201,172,606	417,070
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	-4.2	-13.2	-14.0	-20.3	-18.2	-15.4	5.6
1923-1925-----	13.0	8.1	9.9	.5	2.6	5.5	21.0
1923-1927-----	8.2	-6.2	-5.4	-19.9	-16.0	-10.8	27.8
1919-1927-----	-14.1	11.1	37.1	7.4	16.2	29.3	51.2

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	45, 132	<i>Horse-power</i> 630, 674	38, 049	<i>Horse-power</i> 597, 103	28, 095	<i>Horse-power</i> 493, 424
Steam engines.....	1, 794	235, 196	2, 019	246, 732	1, 857	227, 916
Steam turbines.....	52	16, 927	57	20, 066		
Internal-combustion engines.....	161	6, 020	249	6, 959		
Water wheels and turbines.....	55	2, 291	78	2, 508		
Electric motors driven by purchased current.....	43, 070	370, 240	35, 646	320, 838	25, 892	253, 360
Electric motors, total.....	52, 856	464, 219	42, 838	399, 942	30, 448	300, 377
Driven by purchased current.....	43, 070	370, 240	35, 646	320, 838	25, 892	253, 360
Driven by current generated in establishment reporting.....	9, 786	93, 979	7, 192	79, 104	4, 556	47, 017
Electric generators.....	332	<i>Kilowatts</i> 61, 248	360	<i>Kilowatts</i> 56, 748	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—PLANING-MILL PRODUCTS, BY KIND AND VALUE: 1927

ITEM	Total	Independent planing mills	Planing mills operated in conjunction with sawmills
Total value.....	¹ \$1, 116, 412, 119	¹ \$581, 633, 737	\$534, 778, 382
Dressed lumber, including flooring, ceiling, and siding:			
Quantity (M ft. b. m.).....	19, 345, 061	3, 491, 767	15, 853, 294
Value.....	\$555, 312, 845	\$132, 544, 027	\$422, 768, 818
Doors:			
Number.....	16, 349, 844	12, 138, 125	4, 211, 719
Value.....	\$57, 971, 624	\$43, 934, 490	\$14, 037, 134
Sash:			
Number.....	39, 838, 753	34, 188, 256	5, 650, 497
Value.....	\$29, 765, 614	\$28, 010, 405	\$1, 755, 209
Window and door frames:			
Number.....	11, 904, 490	10, 393, 468	1, 511, 022
Value.....	\$33, 014, 753	\$30, 613, 012	\$2, 401, 741
Plywood, value.....	\$40, 668, 303	\$16, 617, 534	\$24, 050, 769
Portable houses, value.....	\$14, 227, 063	\$14, 224, 988	\$2, 075
Tanks and vats, value ²	\$4, 687, 309	\$4, 645, 558	\$41, 751
Silo stock, value.....	\$3, 820, 986	\$1, 811, 859	\$2, 009, 127
Miscellaneous millwork, value ³	\$365, 609, 656	\$298, 198, 127	\$67, 411, 529
Amount received for custom planing.....	\$3, 303, 767	\$3, 003, 538	\$300, 229
Other products, value.....	\$8, 030, 199	\$8, 030, 199	-----

¹ Does not include \$6,379,492, the value of planing-mill products made as secondary products by establishments engaged primarily in other lines of manufacture.² Wooden tanks and vats are also made to some extent as secondary products by establishments engaged primarily in the manufacture of structural and ornamental ironwork, foundry and machine-shop products, and windmills and windmill towers. The value of the tanks and vats specifically reported by such establishments for 1927 was \$532,563. In some cases, however, the values of tanks and vats made as secondary products in those industries were not separately reported.³ Molding, inside trim, and general millwork not separately reported. Includes also values of miscellaneous millwork normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of planing-mill products.

TABLE 4.---PLANING-MILL PRODUCTS, BY KIND AND VALUE, BY STATES: 1927

STATE	Total value of products	DRESSED LUMBER, INCLUDING FLOORING, CEILING, AND SIDING			DOORS		SASH		WINDOW AND DOOR FRAMES		FLYWOOD	PORTABLE HOUSES	TANKS AND VATS 1	MISCELLANEOUS MILL WORK 2	AMOUNT REPRODUCED FOR CUSTOM PLANING	OTHER PRODUCTS
		Quantity (M ft. b. m.)	Value	Number	Value	Number	Value	Number	Value	Number						
United States.....	\$1,116,412,119	19,345,061	555,312,845	10,349,844	57,971,624	339,838,753	23,765,614	11,904,400	33,014,753	40,688,303	14,227,063	4,087,308	436,043,642	3,308,767	8,030,199	
Alabama.....	39,897,661	1,571,775	35,265,559	128,255	447,160	312,876	340,864	73,411	357,019	(5)	(5)	(5)	3,278,407	151,622	47,000	
Arizona.....	3,345,139	101,472	2,702,065	---	---	---	---	---	---	(5)	(5)	(5)	3,000	3,000	21,614	
Arkansas.....	33,543,557	791,904	26,337,923	17,460	59,030	138,842	104,610	17,103	65,699	(5)	(5)	(5)	6,743,838	13,056	219,012	
California.....	95,704,668	1,115,474	43,672,647	1,976,251	6,553,299	3,997,177	2,825,378	492,744	1,663,436	266,651	1,038,983	502,060	37,297,546	382,224	611,801	
Colorado.....	2,525,997	23,009	802,726	6,931	56,238	35,577	87,105	21,257	96,846	(5)	(5)	(5)	1,448,140	7,776	27,106	
Connecticut.....	5,591,066	1,333	130,550	112,127	554,677	634,551	526,911	65,402	251,119	(5)	(5)	1,775	4,091,999	28,050	5,985	
Delaware.....	515,971	1,780	109,520	---	---	3,900	8,200	2,750	8,875	(5)	(5)	---	3,363,635	11,736	10,955	
Dist. of Columbia.....	1,950,100	---	---	---	---	---	---	---	---	---	---	---	1,046,973	3,197	---	
Florida.....	20,724,880	453,281	13,538,496	42,327	221,585	100,803	240,342	107,538	412,770	79,288	62,563	92,806	5,978,109	130,588	47,591	
Georgia.....	28,653,275	558,576	20,717,703	91,491	307,653	223,519	291,860	79,288	321,748	(5)	(5)	---	6,888,745	94,145	31,416	
Idaho.....	21,120,981	717,277	19,499,206	555	2,776	---	(5)	3,038	9,241	(5)	(5)	(5)	1,608,176	3,312	270	
Illinois.....	49,810,334	143,514	6,517,712	856,453	4,499,750	2,203,840	1,306,076	4,077,580	460,539	4,337,034	4,363,010	848,612	97,350,017	164,155	897,373	
Indiana.....	48,810,182	22,169	1,616,449	128,865	3,297,804	20,527	166,972	166,972	1,779,384	(5)	(5)	7,622	8,408,907	81,034	59,654	
Iowa.....	17,591,203	95	9,011	1,726,460	5,724,837	7,706,852	4,953,392	510,583	1,967,281	(5)	(5)	60,432	5,835,278	17,969	197,654	
Kansas.....	3,007,544	696	39,106	66,434	175,289	736,243	725,400	33,435	121,966	(5)	(5)	1,380	1,847,675	9,639	87,083	
Kentucky.....	10,132,692	36,482	2,265,105	41,284	367,872	33,871	72,999	68,925	399,521	1,959,741	---	(5)	4,556,610	221,728	288,116	
Louisiana.....	47,428,250	1,294,889	40,915,971	52,161	191,516	418,344	335,449	72,973	553,569	(5)	(5)	76,348	5,402,828	143,596	6,973	
Maine.....	6,629,920	34,636	1,476,350	6,426	78,449	241,570	196,948	478,470	717,693	(5)	(5)	(5)	4,023,580	26,128	80,872	
Maryland.....	7,333,068	40,427	2,423,611	30,073	341,406	45,174	165,631	104,861	549,658	(5)	(5)	(5)	3,740,829	24,211	87,702	
Massachusetts.....	15,084,734	20,554	1,420,241	23,048	246,917	357,145	331,959	481,702	(5)	(5)	(5)	7,284	11,532,148	80,940	297,615	
Michigan.....	39,065,207	275,861	13,083,305	202,443	1,405,347	389,723	514,822	802,003	1,818,365	3,354,360	1,632,146	2,186	16,305,710	70,330	278,636	
Minnesota.....	23,578,739	352,333	11,469,574	63,452	332,579	606,162	677,513	1,126,513	2,576,043	(5)	(5)	113,142	8,241,740	28,584	139,564	
Mississippi.....	44,388,689	1,642,017	40,458,039	27,618	124,288	32,511	88,408	28,555	191,466	(5)	(5)	---	3,374,111	151,773	334,604	
Missouri.....	13,581,337	32,147	1,102,985	108,317	574,300	2,386,137	2,968,763	175,665	656,915	1,011,655	(5)	(5)	7,101,425	57,210	118,094	
Montana.....	6,557,128	244,605	6,800,186	4,392	23,562	---	---	86,336	121,317	(5)	(5)	(5)	6,006,265	1,539	4,259	

Nebraska.....	1, 940, 684	630	32, 282	18, 904	82, 468	127, 140	186, 978	30, 612	127, 351	(¹)	(²)	(³)	1, 371, 825	15, 902	123, 818
Nevada.....	960, 285		(¹)	1, 000	5, 400	2, 200	9, 250	1, 850	7, 400				988, 236		
New Hampshire.....	5, 412, 212	4, 654	200, 269	61, 750	202, 067	202, 067	202, 067	221, 297	501, 065		(⁴)	(⁵)	4, 375, 141	3, 483	8, 437
New Jersey.....	11, 880, 419	5, 834	451, 714	64, 838	425, 769	126, 482	431, 491	171, 015	317, 156		(⁶)	(⁷)	9, 270, 744	50, 072	724
New Mexico.....	3, 178, 695	82, 413	2, 223, 455		(⁸)		(⁹)		(¹⁰)				955, 195	45	
New York.....	54, 530, 086	81, 871	4, 606, 133	673, 870	3, 507, 964	2, 118, 223	2, 243, 221	745, 506	2, 796, 036	2, 361, 975	847, 530	486, 515	37, 275, 833	209, 948	194, 931
North Carolina.....	31, 866, 286	583, 039	15, 258, 286	104, 942	368, 623	221, 570	390, 815	170, 237	593, 511	4, 720, 527	119, 039	36, 804	10, 025, 873	152, 957	199, 961
North Dakota.....	196, 129	1, 546	(¹¹)	1, 546	9, 568	7, 755	14, 787	6, 931	22, 414				148, 000	610	760
Ohio.....	32, 245, 952	90, 955	5, 011, 136	190, 681	1, 101, 489	826, 092	1, 291, 671	600, 201	2, 128, 675	1, 845, 803	558, 717	534, 937	18, 431, 361	150, 233	291, 880
Oklahoma.....	6, 698, 300	134, 759	4, 119, 529	32, 260	184, 866	92, 842	103, 146	15, 243	55, 975	6, 500	(¹²)	115, 778	1, 976, 366	30, 108	106, 032
Oregon.....	66, 969, 599	2, 081, 780	50, 437, 945	2, 746, 725	4, 820, 950	117, 502	104, 854	62, 151	189, 143	808, 497	196, 509	(¹³)	10, 342, 655	24, 823	44, 223
Pennsylvania.....	43, 547, 465	90, 623	5, 744, 434	424, 491	3, 021, 630	1, 048, 988	1, 564, 514	530, 171	2, 988, 397	1, 656, 548	96, 018	559, 027	27, 180, 309	175, 091	561, 497
Rhode Island.....	2, 227, 457	8, 826	468, 310	4, 416	38, 636	41, 399	90, 786	14, 341	76, 475		(¹⁴)	(¹⁵)	1, 488, 890	8, 107	56, 253
South Carolina.....	17, 340, 146	598, 970	14, 679, 586	13, 737	42, 625	34, 029	67, 848	36, 111	113, 916	812, 649	(¹⁶)	(¹⁷)	1, 590, 934	30, 438	2, 150
South Dakota.....	1, 314, 101	8, 442	260, 850	11, 834	35, 191	73, 312	84, 622	31, 715	93, 006			(¹⁸)	588, 307	1, 125	2, 000
Tennessee.....	39, 345, 976	331, 686	19, 285, 524	57, 277	234, 852	145, 197	260, 218	97, 977	383, 886	1, 384, 376	(¹⁹)		16, 708, 861	28, 865	1, 050, 394
Texas.....	37, 465, 746	996, 545	26, 758, 460	310, 444	983, 970	1, 527, 645	101, 058	123, 929	589, 606	6, 398	(²⁰)		8, 206, 243	49, 657	39, 817
Utah.....	730, 018	724	21, 925	2, 923	21, 755	19, 430	20, 522	7, 458	31, 819		(²¹)		575, 779	41, 776	3, 068
Vermont.....	4, 226, 118	25, 586	1, 158, 949	1, 741	18, 257	12, 032	22, 807	5, 574	23, 010	1, 867, 683		4, 374	1, 098, 396	22, 513	11, 525
Virginia.....	16, 097, 224	184, 702	7, 079, 870	15, 260	140, 606	42, 028	121, 448	67, 623	391, 866	925, 663		2, 978	7, 273, 409	120, 826	43, 536
Washington.....	129, 392, 791	3, 772, 505	90, 541, 459	4, 281, 846	8, 506, 762	3, 421, 222	1, 249, 411	1, 818, 684	2, 719, 744	6, 884, 205	724, 775	88, 728	18, 183, 528	161, 104	335, 045
West Virginia.....	7, 682, 349	68, 584	3, 530, 225	13, 654	89, 710	75, 268	134, 935	68, 047	262, 095	5, 760	(²²)	(²³)	3, 347, 763	50, 652	160, 909
Wisconsin.....	47, 499, 802	288, 730	10, 461, 174	1, 723, 461	12, 943, 345	4, 330, 836	2, 344, 241	1, 196, 898	1, 340, 072	4, 369, 044	(²⁴)	147, 791	16, 130, 563	57, 601	315, 971
Wyoming.....	77, 957	161	5, 526	1, 980	10, 402	11, 452	14, 965	1, 909	7, 673				39, 031	420	

¹ See footnote 2, Table 3, p. 503.

² Molding, inside trim, and general millwork not reported separately. See footnote 2, Table 3, p. 503.

³ See footnote 1, Table 3, p. 503.

⁴ Includes \$3,820,986, value of sile stock, not shown separately by States to avoid disclosing the output of individual establishments.

⁵ Included in figure for "Miscellaneous millwork" to avoid disclosing the output of individual establishments.

CENSUS OF MANUFACTURES: 1927

TABLE 5.—GENERAL STATISTICS, BY STATES: 1927

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY					Horse- power	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manu- facture 1 -
		Total	Pro- pri- tors and firm mem- bers	Salaried officers and em- ployees	Wage earners (average for the year)	Materials and supplies				Fuel and power			
United States	4,561	115,681	2,360	16,732	96,589	630,674	\$42,460,020	\$126,139,713	\$314,150,598	\$7,292,720	\$581,633,737	\$260,190,419	
Alabama	136	2,383	118	263	2,002	13,644	477,822	1,537,795	8,842,398	87,019	12,934,280	4,004,872	
Arizona	5	61	2	9	50	81,418	15,082	81,418	102,614	4,284	255,755	148,857	
Arkansas	43	1,640	28	191	1,421	7,097	457,303	1,094,763	4,395,297	30,015	6,223,621	2,198,369	
California	356	9,997	238	1,586	8,173	70,240	3,724,155	11,925,845	35,486,531	602,060	59,414,374	23,325,783	
Colorado	29	436	15	58	363	2,041	132,531	507,630	724,827	29,245	1,678,548	924,476	
Connecticut	62	1,194	28	199	967	6,342	509,386	1,502,853	2,387,152	102,321	5,483,811	2,994,338	
Delaware	8	155	2	11	42	6,573	23,010	56,518	129,175	5,901	240,399	104,783	
District of Columbia	6	235	4	33	198	634	98,036	341,839	495,175	13,403	1,050,100	541,522	
Florida	110	1,668	44	295	1,329	13,445	810,775	1,594,110	3,759,084	113,760	7,432,685	3,554,177	
Georgia	123	3,282	68	463	2,751	19,327	960,579	2,158,143	9,274,850	113,700	14,510,567	5,121,957	
Idaho	9	39	7	3	29	441	7,694	45,262	71,512	6,882	158,466	80,042	
Illinois	280	8,712	134	1,377	7,201	40,065	4,317,027	12,454,629	24,514,247	606,552	49,172,188	24,051,389	
Indiana	163	2,897	51	515	2,331	16,683	1,229,445	3,084,476	8,028,701	244,289	15,203,707	6,932,087	
Iowa	53	4,040	18	578	3,444	13,445	1,292,072	3,891,932	9,258,521	108,271	17,542,553	8,175,761	
Kansas	33	808	23	96	689	3,595	215,949	853,890	1,284,850	104,414	2,969,544	1,610,280	
Kentucky	73	2,099	38	276	1,785	10,332	765,700	2,131,810	4,592,536	113,763	9,051,967	4,345,068	
Louisiana	54	2,311	11	232	2,068	8,834	668,938	2,076,821	5,709,485	54,467	10,086,708	4,322,816	
Maine	36	606	13	94	490	5,136	256,866	1,617,642	1,537,453	63,371	2,951,835	1,331,011	
Maryland	57	1,389	26	295	1,068	7,864	574,299	1,233,626	3,900,532	76,598	7,126,473	3,149,343	
Massachusetts	147	2,851	109	444	2,238	16,304	1,126,139	3,876,331	6,364,983	230,226	14,138,244	7,543,035	
Michigan	153	4,809	55	771	3,983	26,710	2,189,795	5,075,154	14,701,971	411,920	26,999,890	11,885,999	
Minnesota	75	3,007	25	419	2,663	12,401	2,949,358	3,246,716	8,474,304	131,584	11,233,657	5,607,769	
Mississippi	108	1,534	88	168	1,278	10,270	994,786	2,807,786	6,880,999	63,200	7,573,482	2,227,223	
Missouri	96	2,632	49	421	2,162	12,633	1,088,979	2,868,001	5,554,823	140,538	11,357,692	5,662,231	
Montana	9	163	4	15	144	1,992	30,506	104,467	428,878	8,187	734,205	297,140	
Nebraska	23	487	10	87	390	2,199	228,853	544,204	860,256	24,222	1,940,684	1,047,206	
Nevada	8	141	1	21	119	1,299	38,572	162,010	586,387	13,929	960,285	354,969	
New Hampshire	32	873	22	81	770	5,667	182,876	955,529	1,932,062	30,828	3,855,955	1,893,065	

New Jersey.....	130	2,822	75	426	1,821	13,035	1,192,419	3,164,040	5,311,521	212,280	11,883,060	6,369,259
New Mexico.....	8	169	5	10	154	366	10,244	129,411	335,201	20,675	552,924	197,048
New York.....	404	9,128	181	1,562	7,385	54,969	4,227,248	12,617,195	25,024,606	796,569	52,402,495	26,581,820
North Carolina.....	163	3,501	105	366	3,030	20,348	875,921	2,636,653	9,558,460	142,172	14,923,177	5,222,545
North Dakota.....	9	57	6	9	42	375	18,024	60,203	76,186	6,548	196,129	113,395
Ohio.....	255	5,673	92	963	4,628	33,816	2,402,271	6,515,761	10,699,253	434,548	31,850,532	14,716,731
Oklahoma.....	33	429	13	63	353	2,515	186,377	508,218	1,118,460	24,498	2,381,912	1,238,964
Oregon.....	61	1,044	26	184	1,734	12,063	551,246	2,236,277	5,669,622	169,588	9,698,878	3,869,068
Pennsylvania.....	439	8,233	264	1,395	6,574	49,578	3,380,924	9,979,588	20,227,365	708,266	41,827,037	20,897,006
Rhode Island.....	22	500	7	107	386	3,537	276,627	572,515	1,099,776	36,552	2,227,457	1,091,129
South Carolina.....	54	1,130	33	122	975	5,248	251,592	743,617	3,602,654	34,253	5,461,019	1,824,112
South Dakota.....	10	117	3	15	99	977	29,969	120,434	268,290	13,919	484,536	202,327
Tennessee.....	103	5,436	49	456	4,931	20,058	1,213,053	4,280,524	15,268,268	141,853	24,473,311	9,063,220
Texas.....	113	2,712	81	345	2,286	11,045	747,882	2,542,359	6,430,711	136,824	11,556,673	4,988,138
Utah.....	16	160	6	26	137	1,282	46,927	213,607	310,318	12,227	729,668	407,123
Vermont.....	20	428	15	40	373	2,322	83,693	427,820	1,281,209	19,563	2,114,232	813,460
Virginia.....	107	2,524	55	303	2,166	13,734	663,300	2,212,663	6,417,123	108,143	11,142,466	4,617,200
Washington.....	120	3,496	48	378	3,070	22,812	974,132	4,021,631	10,849,464	293,825	19,587,125	8,444,336
West Virginia.....	54	959	14	147	798	7,923	378,806	1,009,256	3,637,209	94,717	5,905,365	2,173,439
Wisconsin.....	149	6,386	47	822	5,517	24,587	2,268,587	7,215,951	15,226,749	821,633	29,448,470	13,900,088
Wyoming.....	4	19	4	2	13	150	3,000	20,100	38,900	1,834	73,937	33,203

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

BOXES, WOODEN

[A preliminary report for this industry was issued under date of March 30, 1929]

Description of the industry.—The establishments classified in this industry are those engaged primarily in the manufacture of wooden boxes (not including cigar boxes), crates for butter, fruits, berries, and vegetables; box shooks; cases for eggs and canned goods; carrier trays; storage-battery boxes, etc.

Detailed statistics of products (Table 3, p. 509).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason, no comparable detailed products statistics can be given for earlier years. Some of the manufacturers were not prepared to report their production in the detail required and therefore supplied estimated figures. This fact should be given consideration in any analytical study of the statistics.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years.
See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927.....	748	30,797	\$29,250,351	\$75,797,392	\$133,992,877	\$58,195,485	135,637
1925.....	824	34,834	33,764,709	86,391,171	152,294,579	65,903,408	143,519
1923.....	864	39,154	36,464,026	94,080,353	162,857,784	68,777,431	149,410
1921.....	878	32,595	28,307,330	73,269,702	122,587,582	49,317,880	(²)
1919.....	1,140	42,445	36,811,185	102,946,235	177,818,454	74,872,219	143,583
PER CENT OF DECREASE							
1925-1927.....	-9.2	-11.6	-13.4	-12.3	-12.0	-11.7	-5.5
1923-1925.....	-4.6	-11.0	-7.4	-8.2	-6.5	-4.2	-3.9
1923-1927.....	-13.4	-21.3	-19.8	-19.4	-17.7	-15.4	-9.2
1919-1927.....	-34.4	-27.4	-20.5	-26.4	-24.6	-22.3	-5.5

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	6,905	<i>Horse-power</i> 135,637	6,706	<i>Horse-power</i> 143,519	5,623	<i>Horse-power</i> 149,410
Steam engines.....	445	65,578	515	75,488	} 641	92,535
Steam turbines.....	25	7,337	33	3,678		
Internal-combustion engines.....	31	1,690	33	1,205	63	1,529
Water wheels and turbines.....	14	530	23	672	29	1,143
Electric motors driven by purchased current.....	6,390	60,502	6,102	62,476	4,890	54,193
Electric motors, total.....	8,108	79,375	7,961	80,981	6,444	71,596
Driven by purchased current.....	6,390	60,502	6,102	62,476	4,890	54,193
Driven by current generated in establishment reporting.....	1,718	18,873	1,859	18,505	1,554	17,398
Electric generators.....	89	<i>Kilowatts</i> 15,412	149	<i>Kilowatts</i> 16,637	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—PRODUCTS, BY CLASS AND VALUE: 1927

CLASS	Value
"Boxes, wooden, except cigar boxes," industry, all products, total.....	\$133,992,877
Wooden boxes, crates, and shooks.....	124,165,950
Other products (not normally belonging to the industry).....	8,455,423
Amount received for custom and contract work.....	371,499
Wooden boxes, crates, and shooks, made as secondary products in other industries.....	55,946,870
Wooden boxes (except cigar boxes), crates, and shooks, all industries, total (sum of 2 and 5).....	180,112,820
Lumber, not wire bound.....	99,637,107
Panel, not wire bound.....	10,209,320
Wire bound.....	12,588,619
Not specified.....	57,677,774

TABLE 4.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately.]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Salaries	Wages	Cost of materials, sup- plies, fuel, and power		Value of products	Value added by manu- facture 1
		Total	Pro- pri- ors and firm mem- bers	Salariat- ed officers and em- ployees	Wage earners (average for the year)			Materials and supplies	Fuel and power		
United States.....	748	33,052	383	2,432	30,797	\$6,684,242	\$29,250,351	\$74,561,159	\$1,236,233	\$133,992,877	\$58,195,485
Alabama.....	5	239	5	18	216	52,504	127,993	257,505	1,970	549,446	289,971
Arkansas.....	6	631	4	28	599	88,918	310,815	636,499	3,093	1,173,398	553,796
California.....	45	1,978	20	160	1,798	373,258	2,028,428	6,989,071	11,632	10,898,706	3,768,093
Colorado.....	4	92	1	10	81	19,281	73,618	250,074	8,633	350,644	97,507
Connecticut.....	6	65	1	13	51	27,040	93,537	198,553	2,427	384,106	183,146
Florida.....	10	962	5	46	911	77,085	552,016	807,425	4,480	2,083,930	1,272,025
Georgia.....	11	934	1	43	890	120,199	535,923	1,265,979	10,790	2,094,152	1,357,353
Illinois.....	52	2,700	27	240	2,433	9,032	708,200	6,045,541	123,630	11,445,246	5,276,075
Indiana.....	18	695	6	58	631	130,060	579,634	1,377,784	21,345	2,475,752	1,074,623
Iowa.....	6	117	16	5	96	6,549	82,959	260,678	4,767	425,756	160,311
Kentucky.....	8	648	1	60	587	117,271	439,504	1,096,263	26,768	2,071,927	948,868
Louisiana.....	12	1,035	16	76	943	166,779	749,150	2,256,841	22,306	3,597,891	1,318,744
Maine.....	10	584	3	38	543	69,435	530,675	1,273,095	24,721	1,136,161	827,745
Maryland.....	25	1,294	19	65	1,140	152,866	964,692	1,391,198	16,683	3,848,380	1,840,589
Massachusetts.....	59	2,278	21	195	2,062	450,689	2,316,304	5,048,867	67,597	9,306,590	4,190,126
Michigan.....	23	737	10	51	676	152,112	818,073	2,069,553	37,349	3,808,988	1,702,086
Minnesota.....	17	520	32	32	479	112,296	538,284	1,560,452	28,932	2,839,626	1,250,242
Mississippi.....	13	893	7	51	765	117,315	467,794	1,196,784	11,678	2,331,323	1,123,861
Missouri.....	22	1,310	6	116	1,188	333,955	1,023,514	3,181,257	72,813	5,335,440	2,081,370
Nebraska.....	5	117	2	14	101	38,110	102,379	288,356	5,630	511,914	217,928
New Hampshire.....	25	1,403	3	84	1,376	273,756	1,376,091	3,658,717	30,372	6,086,904	2,397,815
New Jersey.....	25	1,175	15	88	1,062	276,619	1,583,022	4,316,348	65,959	9,205,145	4,073,238
New York.....	70	1,588	51	194	1,343	621,808	1,876,646	4,319,309	108,143	8,515,580	4,088,128
North Carolina.....	15	954	8	81	865	191,341	604,893	2,186,795	17,783	3,386,434	1,181,856

Ohio.....	43	1,520	33	123	1,364	5,434	299,300	1,510,595	3,451,781	60,069	6,587,481	3,075,031
Oregon.....	8	177	4	8	1,165	2,051	13,345	191,247	682,405	14,173	984,059	287,481
Pennsylvania.....	47	1,065	32	127	1,508	8,220	456,407	1,665,061	3,828,070	98,816	7,226,705	3,289,819
Rhode Island.....	7	140	5	15	120	907	42,640	138,985	319,984	8,742	597,388	268,662
South Carolina.....	6	249		11	238	690	27,513	123,285	219,705	9,668	447,406	218,033
Tennessee.....	15	1,059	7	49	1,003	2,294	121,125	670,585	1,190,128	5,299	2,410,238	1,214,811
Texas.....	22	1,035	11	73	951	5,624	149,820	632,793	1,455,143	31,823	2,975,364	1,488,398
Virginia.....	16	1,564		85	1,479	6,302	243,547	1,056,378	3,603,709	28,438	5,612,442	1,980,295
Washington.....	15	410	4	29	377	2,338	88,964	385,756	1,137,395	25,809	1,863,506	700,302
West Virginia.....	6	158	4	16	138	1,445	38,781	151,013	421,804	11,293	743,825	310,728
Wisconsin.....	55	2,333	22	145	2,166	10,583	418,216	2,005,801	3,787,936	106,307	7,288,634	3,394,391
Other States ²	16	483	4	35	444	2,033	106,540	373,508	1,080,985	21,307	1,774,390	672,098

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Arizona, 2 establishments; Delaware, 2; Idaho, 2; Kansas, 3; Oklahoma, 2; Utah, 1; Vermont, 4.

COOPERAGE

[A preliminary report for this industry was issued under date of February 26, 1929]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of barrels, kegs, tubs, pails, hogsheads, and similar containers made of staves.

Detailed statistics of products (Tables 3 and 4, p. 513).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason, no comparable detailed products statistics can be given for earlier years. Some of the manufacturers were not prepared to report their production in the detail required and therefore supplied estimated figures. This fact should be given consideration in any analytical study of the statistics.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927.....	528	11,455	\$12,937,460	\$43,821,250	\$66,947,424	\$23,126,174	33,553
1925.....	553	11,483	12,907,614	44,175,686	67,734,662	23,558,976	30,738
1923.....	623	12,028	13,182,623	48,355,799	73,134,009	24,778,210	33,519
1921.....	625	9,876	10,108,589	40,586,207	56,633,404	16,047,197	(3)
1919.....	1,099	13,219	14,082,224	58,520,655	88,236,061	29,715,406	30,688
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	-4.5	-0.2	0.2	-0.8	-1.2	-1.8	9.1
1923-1925.....	-11.2	-4.5	-2.1	-8.6	-7.4	-4.9	-8.2
1923-1927.....	-15.2	-4.8	-1.9	-9.4	-8.5	-6.7	.1
1919-1927.....	-52.0	-13.3	-8.1	-25.1	-24.1	-22.2	9.3

¹ Value of products less cost of materials, supplies, fuel and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	1, 570	Horse-power 33, 553	1, 208	Horse-power 30, 758	1, 317	Horse-power 33, 519
Steam engines.....	168	21, 430	167	20, 417	170	21, 033
Steam turbines.....	4	502	3	433		
Internal-combustion engines.....	13	451	17	341		
Water wheels and turbines.....	4	93	26	214		
Electric motors driven by purchased current.....	1, 381	11, 077	995	9, 353	1, 110	11, 446
Electric motors, total.....	1, 876	16, 059	1, 405	13, 702	1, 267	13, 773
Driven by purchased current.....	1, 381	11, 077	995	9, 353	1, 110	11, 446
Driven by current generated in establishment reporting.....	495	4, 982	410	4, 349	157	2, 327
Electric generators.....	39	Kilowatts 4, 023	41	Kilowatts 3, 654	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—PRODUCTS, BY KIND AND VALUE: 1927

KIND	Value
1. Cooperage industry, all products, total.....	\$86, 947, 424
2. Cooperage.....	63, 320, 354
3. Other products (not normally belonging to the industry).....	3, 419, 187
4. Amount received for custom and contract work.....	207, 883
5. Cooperage made as secondary products in other industries.....	2, 401, 199
Cooperage, all industries, total (sum of 2 and 5).....	65, 721, 553
Barrels.....	38, 614, 005
Tubs and pails.....	7, 263, 214
Kegs.....	7, 241, 545
Hogsheads.....	734, 220
Cooperage not reported by kind.....	11, 868, 569

TABLE 4.—PRODUCTS, BY QUANTITY AND VALUE, BY KINDS: 1927

KIND	Total value	NUMBER AND VALUE REPORTED		Value only reported
		Number	Value	
Total.....	\$65, 721, 553		\$40, 253, 805	\$25, 467, 748
Barrels.....	38, 614, 005	27, 755, 310	30, 416, 163	8, 197, 842
Tubs and pails.....	7, 263, 214	8, 085, 418	3, 075, 957	4, 187, 257
Kegs.....	7, 241, 545	10, 855, 290	6, 166, 937	1, 074, 608
Hogsheads.....	734, 220	262, 025	594, 748	139, 472
Cooperage not reported by kind.....	11, 868, 569			11, 868, 569

TABLE 5.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY					Horse- power	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manu- facture ¹
		Total	Pro- pri- etors and firm mem- bers	Salaried officers and em- ployees	Wage earners (average for the year)	Materials and supplies				Fuel and power			
United States.....	628	12,085	261	969	11,455	33,553	\$2,554,298	\$12,037,460	\$43,220,146	\$601,104	\$66,947,424	\$23,126,174	
California.....	14	371	12	55	304	1,565	177,646	475,004	2,107,054	10,512	3,140,277	1,013,711	
Connecticut.....	4	26	3	3	20	27	5,780	116,207	1,484	172,096	1,380,431	339,506	
Florida.....	10	255	6	23	226	683	33,840	134,663	316,783	2,038	679,653	84,405	
Georgia.....	12	213	4	17	192	171	28,349	135,219	704,196	10,657	961,519	360,832	
Illinois.....	31	1,262	13	102	1,147	3,580	342,764	1,575,530	5,634,721	80,618	8,805,369	246,666	
Indiana.....	11	145		8	137	517	25,176	159,120	547,336	10,336	841,737	284,065	
Iowa.....	10	208		5	195	540	13,320	203,703	1,025,603	15,322	1,380,431	339,506	
Kansas.....	5	114	7	6	101	230	11,980	99,729	356,616	1,722	731,572	373,234	
Kentucky.....	9	525	8	38	479	1,669	76,375	438,050	1,817,024	17,355	2,565,500	731,121	
Louisiana.....	8	457		44	413	1,317	84,846	348,379	1,624,673	20,984	2,220,637	574,980	
Maine.....	4	48		4	44	165	9,822	60,231	225,082	4,265	339,347	110,000	
Maryland.....	23	353	24	22	307	713	47,784	311,948	1,399,579	11,111	2,032,818	622,128	
Massachusetts.....	12	524	4	41	479	1,485	80,341	501,575	1,477,755	22,991	2,396,880	896,134	
Michigan.....	5	46	2	4	40	123	10,915	55,537	165,922	3,541	251,496	82,033	
Minnesota.....	8	492	1	35	456	1,875	83,594	523,867	1,486,571	31,282	2,378,762	860,899	
Missouri.....	15	620	5	68	547	1,357	207,175	615,952	1,768,560	23,217	3,031,349	1,239,572	
New Hampshire.....	8	404	3	22	379	1,901	50,209	391,860	455,361	19,395	974,392	499,696	
New Jersey.....	20	860	8	59	793	1,557	207,973	1,298,117	4,270,782	37,683	6,723,583	2,415,118	
New York.....	61	746	32	69	645	1,099	131,750	834,589	2,727,558	49,500	4,151,536	1,374,478	
North Carolina.....	15	83	1	10	72	108	7,070	49,938	324,054	513	415,277	90,710	
Ohio.....	46	589	11	50	528	1,348	104,148	675,103	2,447,626	22,797	3,774,006	1,303,583	
Pennsylvania.....	47	781	27	71	683	2,312	211,301	803,968	3,633,657	54,175	5,286,045	1,598,213	
Tennessee.....	9	319	2	12	305	779	35,882	198,251	561,342	2,586	845,235	281,297	
Texas.....	9	215	3	16	196	1,100	52,886	169,764	791,199	15,880	1,066,076	258,997	
Virginia.....	65	1,007	65	39	903	1,553	87,409	820,384	1,619,420	19,833	2,851,959	1,212,656	

Washington.....	6	569	2	26	541	2, 125	86, 441	657, 253	1, 295, 643	21, 517	2, 219, 533	902, 373
West Virginia.....	30	105	1	11	93	3	18, 188	121, 809	455, 026	685	679, 838	224, 127
Wisconsin.....	13	863	9	84	770	2, 272	266, 771	839, 215	2, 422, 759	71, 059	3, 916, 490	1, 422, 672
Other States ¹	18	485	3	22	460	1, 370	45, 533	390, 009	1, 442, 037	8, 986	2, 114, 021	662, 998

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Alabama, ³ establishments; Arkansas, 1; Colorado, 1; Nebraska, 2; Oklahoma, 2; Oregon, 1; South Carolina, 4; Utah, 1; Vermont, 2.

CASKETS, COFFINS, BURIAL CASES, AND MORTICIANS' GOODS

[A preliminary report for this industry was issued under date of November 28, 1928]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of caskets and coffins, whether of wood or of metal, burial cases, shipping cases, and morticians' supplies and accessories, such as burial garments, gloves, and slippers, casket linings and draperies, ambulance baskets, lowering devices, couches, embalming tables, and embalming fluids.

Detailed statistics of products (Tables 3 and 4).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason no comparable detailed product statistics can be given for earlier years. Some of the establishments engaged in the casket and morticians' goods industry were not prepared to report their operations in the detail called for on the schedule and therefore supplied estimated figures. This fact should be given consideration in any analytical study of the statistics.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	340	11,665	\$14,420,598	\$33,327,469	\$74,890,850	\$41,563,381	31,105
1925-----	326	11,479	14,056,507	32,771,236	70,412,687	37,641,451	29,164
1923-----	327	11,593	13,333,645	31,541,179	65,557,821	34,016,642	27,840
1921-----	314	9,956	10,585,816	27,016,789	54,795,673	27,778,884	(?)
1919-----	351	11,890	11,450,957	31,595,287	64,377,133	32,781,846	22,190
PER CENT OF INCREASE OR DECREASE(—)							
1925-1927-----	4.3	1.6	2.6	1.7	6.4	10.4	6.7
1923-1925-----	—3	—1.0	5.4	3.9	7.4	10.7	6.7
1923-1927-----	4.0	.6	8.2	5.7	14.2	22.2	13.8
1919-1927-----	—3.1	—1.9	25.9	5.5	16.3	26.8	40.2

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	3,391	Horse-power 31,105	2,748	Horse-power 29,164	2,419	Horse-power 27,340
Steam engines.....	81	11,822	89	12,126	99	12,488
Steam turbines.....	3	170	2	46		
Internal-combustion engines.....	7	177	9	195		
Water wheels and turbines.....	14	643	8	527	8	218
Electric motors driven by purchased current.....	3,286	18,293	2,640	16,270	2,299	570
Electric motors, total.....	4,382	26,605	3,831	25,159	3,147	20,443
Driven by purchased current.....	3,286	18,293	2,640	16,270	2,299	14,064
Driven by current generated in establishment reporting.....	1,096	8,312	1,191	8,889	848	6,379
Electric generators.....	44	Kilowatts 5,626	47	Kilowatts 5,125	(1)	Kilowatts (1)

¹ Not called for on schedule.

TABLE 3.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1927

	Total value	NUMBER AND VALUE REPORTED		Value only reported
		Number	Value	
Total.....	¹ \$74,890,850	-----	\$43,931,674	\$30,959,176
Caskets and coffins:				
Wooden, including metal-lined.....	43,217,953	806,680	29,000,976	14,216,977
Metal.....	10,417,881	60,545	7,661,284	2,756,597
Other.....	188,988	2,121	82,579	106,409
Wooden shipping and outer cases.....	² 4,176,139	436,948	3,598,572	577,567
Metal grave vaults and shipping cases.....	4,662,328	87,486	3,588,263	1,074,065
Garments.....	3,728,529	-----	-----	3,728,529
Embalming fluids.....	2,197,400	-----	-----	2,197,400
Morticians' supplies.....	3,392,509	-----	-----	3,392,509
Morticians' goods and supplies not reported by kind.....	709,359	-----	-----	709,359
Other products (not normally belonging to the industry).....	2,199,764	-----	-----	2,199,764

¹ Does not include the value of caskets, etc., made as secondary products by establishments classified in other industries; this value for 1927 was \$1,777,420.² Value of shipping and outer cases reported separately. In some returns the value of shipping and outer cases was included with that of caskets and coffins.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, BY STATES: 1927

STATES	Total	Wooden caskets and coffins (in- cluding metal- lined) and shipping and outer cases	Metal caskets and coffins and grave vaults and shipping cases	Other products ¹
United States.....	² \$74,890,850	\$47,394,092	\$15,080,209	\$12,416,549
Ohio.....	11,309,544	2,244,541	6,595,572	2,469,431
Pennsylvania.....	11,230,905	7,209,035	2,991,331	1,030,539
New York.....	9,884,006	7,614,696	401,446	1,867,864
Illinois.....	7,336,453	2,794,910	2,533,622	2,007,921
Tennessee and North Carolina.....	4,085,510	3,535,231	70,768	479,511
Missouri.....	3,040,552	1,786,012	855,112	399,428
Indiana.....	2,853,429	2,599,725	48,425	205,279
California.....	2,813,811	1,809,175	337,705	666,931
Massachusetts.....	2,667,433	1,963,534	141,586	562,313
Michigan.....	2,636,331	1,937,288	415,894	283,149
Wisconsin.....	1,905,045	1,592,678	16,502	295,865
Iowa.....	1,823,013	1,369,621	336,551	116,841
Other States ³	13,304,818	10,937,646	335,695	2,031,477

¹ Caskets and coffins, other than wood and metal, \$188,988; garments, \$3,728,529; embalming fluids, \$2,197,400; morticians' supplies, \$3,392,509; other products and those not specified, \$2,909,123.

² See footnote 1, Table 3.

³ See Table 5.

TABLE 5.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately.]

STATE	Num-ber of estab-lish-ments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power	Salaries	Wages	Cost of materials, sup-plies, fuel, and power		Value of products	Value added by manu-facture ¹
		Total	Pro-pri-ets and firm mem-bers	Salari-ed officers and em-ployees	Wage earners (average for the year)				Materials and supplies	Fuel and power		
United States.....	340	13,839	130	2,044	11,655	31,105	\$5,649,433	\$14,420,598	\$32,517,419	\$810,050	\$74,890,850	\$41,563,381
Alabama.....	4	149	1	28	120	188	67,540	108,791	280,204	2,855	568,834	276,775
Arkansas.....	3	112	13	13	99	415	84,985	84,032	310,682	11,424	573,200	251,094
California.....	17	436	10	90	336	624	272,699	507,578	1,557,673	12,193	2,813,811	1,243,935
Colorado.....	6	51	3	13	35	106	31,707	42,603	164,790	6,582	345,909	174,537
Georgia.....	12	229	4	38	187	868	89,650	182,948	351,841	13,177	799,716	434,698
Illinois.....	22	1,176	2	199	975	2,110	641,753	1,574,646	3,476,175	78,337	7,336,453	3,781,941
Indiana.....	21	748	13	125	610	1,605	309,879	640,105	1,343,701	28,383	2,853,429	1,481,345
Iowa.....	11	364	3	58	303	933	173,017	350,012	823,688	25,988	1,823,013	973,337
Kansas.....	5	96	4	12	80	63	24,341	86,896	320,978	1,711	620,973	298,284
Maine.....	4	61	2	12	47	238	36,255	61,574	143,697	4,017	351,261	203,547
Massachusetts.....	13	522	4	79	439	1,110	139,267	535,042	1,249,552	34,624	2,067,433	1,383,257
Michigan.....	3	337	14	80	443	906	206,284	922,176	1,249,994	21,427	2,063,331	1,409,910
Minnesota.....	2	201	3	39	162	335	104,600	173,968	443,707	9,949	1,084,373	630,717
Missouri.....	10	546	4	68	474	1,293	152,125	912,608	912,608	16,403	3,040,562	2,111,481
New Hampshire.....	3	43	4	4	39	159	7,264	51,265	91,445	2,407	191,608	97,756
New Jersey.....	7	149	5	25	119	245	50,422	199,356	324,241	9,327	782,649	449,078
New York.....	32	1,720	10	231	1,479	4,001	783,718	1,925,665	4,120,095	135,630	9,834,006	5,628,281
North Carolina.....	6	243	44	44	199	4,042	181,216	218,160	646,176	9,523	1,350,014	694,315
Ohio.....	26	1,834	11	302	1,521	4,214	709,146	1,078,380	4,202,154	141,127	11,309,544	6,066,293
Oregon.....	3	101	1	7	63	585	29,740	131,289	238,093	9,526	546,941	299,822
Pennsylvania.....	31	1,961	12	208	1,741	4,289	562,545	2,326,832	4,580,324	97,293	11,230,905	6,553,298
South Carolina.....	3	77	2	10	65	255	22,130	49,237	81,602	4,410	226,257	140,245
Tennessee.....	11	651	6	73	572	1,237	160,355	524,480	1,292,161	42,119	2,735,496	1,401,216
Texas.....	10	318	54	54	264	1,019	160,301	286,688	834,508	7,715	1,605,573	763,850
Virginia.....	5	73	1	17	55	386	40,620	75,270	197,642	4,871	373,259	170,746
Washington.....	5	93	2	12	79	112	47,102	106,789	189,171	5,360	475,278	280,747
Wisconsin.....	6	466	6	64	396	970	187,448	444,425	744,673	29,308	1,905,045	1,131,064
Other States ²	30	882	10	139	733	2,177	373,321	754,779	2,381,784	44,364	4,758,990	2,332,842

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Connecticut, 3 establishments; Florida, 3; Kentucky, 5; Louisiana, 4; Maryland, 2; Mississippi, 2; Nebraska, 2; Oklahoma, 1; Rhode Island, 1; Utah, 1; Vermont, 2; West Virginia, 4.

FURNITURE

[A preliminary report for this industry was issued under date of November 15, 1928, and a supplement under date of January 12, 1929]

Description of the industry.—This industry embraces establishments engaged in the manufacture of furniture of wood, metal, fiber, reed, rattan, and willow. Statistics are presented for four general classes, as follows:

(1) *Household furniture.*—Furniture commonly used in dwellings, except mattresses, bedsprings, and refrigerators.

(2) *Furniture and fixtures for offices and stores.*—Desks, chairs, lockers, shelving, counters, tables, partitions, window backs, show cases, wall cases, cabinets, and other office and store furniture and fixtures.

(3) *Professional, laboratory, hospital, barber, and beauty-parlor chairs, tables, cots, etc.*

(4) *Furniture for public buildings.*—Furniture for schools, theaters, assembly halls, and churches, together with seats for public conveyances.

Consolidation of "Hammocks" industry with "Furniture" industry.—The former industry classification "Hammocks," which included the manufacture of hammock couches and porch swings, was discontinued at the census for 1927, and the statistics for the manufacture of hammocks, etc., for 1919, 1921, 1923, and 1925 have been combined with those for furniture. This consolidation was made partly because of the similarity between the products of the two industries and partly because of the fact that porch swings and hammock couches are made to a considerable extent as secondary products by establishments already classified, on the basis of their principal products, in the furniture industry. All figures for previous years presented in this report have been made comparable, so far as practicable, with those for 1927.

Data on certain classes of products not specifically called for.—The schedule used for collecting data on this industry specified the principal items of furniture and fixtures. It was necessary, however, because of the great variety of such products, to carry under each subdivision a line calling for data on other kinds, not named on the schedule, falling within the same class. In the majority of cases the kinds reported under "other" furniture or fixtures were indicated, but some establishments reported values without specifying kinds. The values shown in footnotes 2, 3, 4, 6, and 7, Table 5, and footnote 2, Table 10, probably do not, therefore, cover the total values of all such products made.

Detailed statistics on products (Tables 3-12).—Prior to 1923 no detailed production figures were compiled for furniture. A special schedule was used for the industry at the census for 1923, and still greater detail was provided for in the forms for 1925 and 1927. Because of the changes made in these schedules, the detailed statistics for 1923 are not entirely comparable with those for 1925 and 1927. The fact that many of the manufacturers were not prepared to report their production in the detail required, and therefore supplied estimated figures in some cases, should be given consideration in any analytical study of the furniture statistics.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

ata for establishments with products under \$5,000 in value included for 1919 but not for subsequent years.
See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
27-----	3,222	186,302	\$236,109,312	\$389,389,595	\$879,706,306	\$490,316,711	445,179
25 ² -----	3,239	181,016	225,297,743	384,875,068	868,719,971	483,844,908	402,719
23 ² -----	3,047	168,157	204,566,063	342,442,530	776,846,732	434,404,202	344,954
21 ² -----	3,038	124,362	144,148,061	253,705,187	550,413,020	296,706,533	(²)
19 ² -----	3,279	140,252	143,152,217	265,725,010	579,906,396	314,181,386	265,156
PER CENT OF INCREASE OR DECREASE (—)							
15-1927-----	-0.5	2.9	4.8	1.2	1.3	1.3	10.5
23-1925-----	6.3	7.6	10.1	12.4	11.8	11.4	16.7
23-1927-----	5.7	10.8	15.4	13.7	13.2	12.9	29.1
9-1927-----	-1.7	32.8	64.9	46.5	51.7	56.1	67.9

Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)
The differences between the figures for 1925 and those for previous years as presented in this report
d as published in former reports are due to changes in classification. (See "Consolidation of 'Ham-
ocks' industry with 'Furniture' industry," p. 520.)
Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND
RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925 ¹		1923 ¹	
	Number	Capacity	Number	Capacity	Number	Capacity
ime movers, total-----	45,909	Horse- power 445,179	36,366	Horse- power 402,719	26,706	Horse- power 344,954
Steam engines-----	865	168,148	1,243	169,575	1,148	171,673
Steam turbines-----	49	20,637	35	12,620		
Internal-combustion engines-----	52	1,408	97	3,760		
Water wheels and turbines-----	60	4,320	99	5,100	108	4,123
Electric motors driven by purchased current-----	44,883	250,666	34,892	211,664	108	4,459
Electric motors, total-----	63,248	380,380	49,683	320,290	25,342	164,699
Driven by purchased current-----	44,883	250,666	34,892	211,664	25,342	164,699
Driven by current generated in estab- lishment reporting-----	18,365	129,714	14,791	108,626	10,137	68,501
Electric generators-----	500	Kilowatts 78,788	481	Kilowatts 76,457	(²)	Kilowatts (²)

¹ See footnote 2, Table 1.² Not called for on schedule.

TABLE 3.—PRODUCTS, BY CLASS AND VALUE: 1921 TO 1927

CLASS	1927	1925 ¹	1923 ¹	1921 ¹
Total value ²	\$879,706,306	\$868,719,971	\$776,846,732	\$550,413,020
Household furniture.....	634,003,122	631,886,965	581,399,951	465,448,875
Furniture and fixtures for offices and stores.....	163,911,040	145,776,511		
Furniture for public buildings (schools, theaters, assembly halls, and churches) and seats for public conveyances ³	30,577,941	32,935,261	165,447,405	84,964,145
Professional, laboratory, hospital, barber, and beauty-parlor chairs, tables, cots, etc.....	15,203,791	13,138,756		
Miscellaneous products, other than furniture.....	31,083,087	40,674,649	26,141,023	(⁴)
Contract work on materials owned by others, and custom work and repairing.....	4,927,325	4,307,829	3,858,353	(⁴)

¹ See footnote 2, Table 1, p. 521.² Does not include values of furniture made as secondary products by establishments classified in other industries: 1927, \$26,170,112; 1923, \$24,685,967; 1923, \$12,399,400; 1921, \$12,065,642.³ Value of seats for public conveyances not shown separately to avoid disclosing the production of individual establishments.⁴ Not tabulated separately.

TABLE 4.—FURNITURE, BY CLASS, MATERIAL, AND VALUE: 1927

CLASS	Total	Wood	Metal	Fiber, rattan, reed, and willow
Aggregate value.....	\$843,695,894	¹ \$715,047,905	\$107,523,539	¹ \$21,124,450
Household, total.....	634,003,122	572,488,443	40,390,229	21,124,450
Living-room and library.....	285,337,296	265,273,319	4,482,263	15,581,714
Bedroom.....	174,741,174	145,621,124	29,060,205	59,845
Dining-room.....	104,895,784	104,781,945		113,839
Kitchen.....	24,988,549	23,382,234	1,606,315	
Porch.....	6,522,368	3,499,909	1,069,159	1,953,300
Camp.....	4,156,231	3,452,361	703,870	
Hall.....	1,946,223	1,718,506	226,889	828
Other.....	31,415,497	24,759,045	3,241,528	3,414,924
Furniture and fixtures for offices and stores.....	163,911,040	¹ 109,397,933	54,513,107	(³)
Professional, laboratory, hospital, barber, and beauty-parlor chairs, tables, cots, etc.....	15,203,791	7,366,124	7,837,667	
Furniture for public buildings and seats for public conveyances ⁴	30,577,941	² 25,795,405	4,782,536	(³)

¹ Value of "Fiber, rattan, reed, and willow," except "Household," included with "Wood."² Includes value of "Fiber, rattan, reed, and willow."³ Included with "Wood" to avoid disclosing the production of individual establishments.⁴ See footnote 3, Table 3, above.

TABLE 5.—WOOD HOUSEHOLD FURNITURE, BY KIND AND VALUE, BY STATES:
1927

o avoid disclosing the production of individual establishments, certain items are included with others and are not shown separately by States, as explained in the footnotes]

KIND	United States	New York	Illinois	Indiana	Michigan	North Carolina
Aggregate value	\$572,488,443	\$90,876,983	\$69,151,356	\$66,373,672	\$57,568,584	\$50,996,065
Living-room and library, total.....	265,273,319	54,745,870	46,898,105	20,999,916	23,489,410	7,643,494
Suites, upholstered.....	142,942,598	32,110,086	32,133,774	7,443,660	5,321,168	5,009,183
Suites, davenports, sofas, and day beds, not upholstered.....	1,910,744	199,174	(1)	7,500	(1)	38,081
Davenports, sofas, day beds, etc., upholstered.....	9,050,248	1,973,725	563,501	216,178	722,986	252,045
Chairs and rockers—						
Upholstered.....	19,731,703	6,543,914	1,874,325	1,021,771	2,074,172	1,265,741
Not upholstered.....	7,777,155	748,721	(1)	317,381	(1)	497,046
Tables.....	20,358,927	2,521,986	1,448,162	3,065,167	3,475,670	169,310
Cabinets.....	6,740,320	976,314	1,036,195	2,151,797	928,363	(1)
Desks.....	6,168,004	648,590	759,040	430,065	2,016,829	(1)
Bookcases.....	2,578,397	509,993	439,965	194,662	974,061	(1)
Piano benches and stools.....	1,816,056	218,026	470,708	212,567	62,724	(1)
Other living-room and library furniture.....	46,169,167	8,295,341	8,172,435	5,939,168	7,913,437	412,088
Bedroom, total.....	145,621,124	16,588,109	7,673,052	17,421,572	19,718,283	26,523,852
Suites.....	75,503,583	7,474,803	3,133,456	8,180,711	12,957,385	12,728,782
Dressers, vanity dressers, and dressing tables.....	25,431,271	3,343,586	263,875	3,071,065	2,440,891	6,364,883
Bedsteads.....	13,566,504	2,262,002	125,189	1,352,321	2,360,114	2,821,905
Chiffoniers, chifforobes, wardrobes, and chifforettes.....	12,957,761	1,395,810	227,786	2,537,080	978,902	2,961,749
Chairs and benches.....	5,766,424	1,088,780	24,014	398,250	822,836	1,474,260
Other bedroom furniture.....	12,396,581	1,023,128	3,898,732	1,882,145	158,155	172,273
Dining-room, total.....	104,781,945	9,922,819	11,958,907	11,893,419	12,625,365	14,404,118
Suites.....	50,944,165	4,345,432	7,992,226	6,652,769	9,194,401	7,040,360
Chairs.....	21,431,668	3,144,373	1,665,133	1,930,453	765,103	3,938,337
Hbuffets, china closets, and servers.....	13,200,443	1,162,696	806,493	1,813,445	1,080,298	1,851,569
Tables.....	9,157,933	652,887	469,078	917,594	747,761	617,587
Breakfast sets.....	8,991,417	379,837	771,101	577,658	538,700	946,040
Other dining-room furniture.....	1,056,319	237,594	254,876	1,500	299,102	10,225
Kitchen, total.....	23,382,234	1,708,711	457,797	12,853,623	75,000	1,743,809
Cabinets.....	13,106,634	277,732	386,876	10,469,825	-----	1,200,132
Chairs and stools.....	5,145,682	288,195	(5)	818,773	-----	522,453
Other kitchen furniture.....	5,129,918	1,142,784	70,921	1,565,025	75,000	21,224
Parlor.....	3,499,909	172,674	-----	1,223,460	-----	291,904
Hill.....	1,718,506	300,898	88,174	225,705	177,849	10,993
Miscellaneous and not specified.....	28,211,406	7,437,902	2,075,321	1,755,977	1,482,677	377,895

See footnotes at end of table.

TABLE 5.—WOOD HOUSEHOLD FURNITURE, BY KIND AND VALUE, BY STATES:
1927—Continued

[See note at head of this table, p. 523]

KIND	Pennsyl- vania	Ohio	California	Wisconsin	Massachu- setts	Other States
Aggregate value.....	\$42, 194, 071	\$23, 540, 407	\$21, 797, 476	\$21, 172, 040	\$20, 161, 968	\$108, 655, 821
Living-room and library, total.....	17, 042, 886	17, 671, 919	13, 922, 210	11, 576, 846	11, 928, 390	39, 354, 273
Suites, upholstered.....	8, 726, 679	8, 064, 663	7, 809, 393	4, 063, 357	6, 169, 220	26, 091, 415
Suites, davenport, sofas, and day beds, not up- holstered.....	17, 160	4, 600	61, 184	-----	257, 487	1, 325, 558
Davenport, sofas, day beds, etc., upholstered.....	344, 619	1, 178, 655	1, 526, 657	246, 817	611, 614	1, 413, 451
Chairs and rockers— Upholstered.....	299, 271	1, 312, 302	1, 238, 975	1, 001, 071	1, 198, 807	1, 901, 354
Not upholstered.....	1, 466, 002	268, 625	207, 493	687, 699	1, 485, 335	2, 098, 853
Tables.....	766, 894	3, 021, 162	685, 604	2, 797, 656	324, 808	2, 112, 508
Cabinets.....	130, 136	220, 827	180, 050	765, 040	125, 607	225, 991
Desks.....	110, 719	610, 215	177, 814	(¹)	437, 054	977, 678
Bookcases.....	2, 825	197, 735	17, 761	(¹)	95, 189	146, 206
Piano benches and stools.....	52, 554	(¹)	159, 561	16, 865	136, 410	486, 641
Other living-room and li- brary furniture ²	5, 126, 027	2, 793, 135	1, 857, 718	1, 998, 341	1, 086, 859	2, 574, 618
Bedroom, total.....	11, 154, 596	1, 947, 842	4, 302, 076	3, 116, 350	2, 448, 887	34, 726, 505
Suites.....	6, 499, 019	1, 106, 800	2, 393, 322	2, 182, 567	421, 724	18, 425, 014
Dressers, vanity dressers, and dressing tables.....	1, 989, 786	188, 790	673, 982	98, 501	272, 378	6, 723, 534
Beds.....	596, 653	74, 052	387, 959	(³)	466, 942	3, 119, 367
Chiffoniers, chifforobes, wardrobes, and chiffor- ettes.....	717, 132	170, 098	271, 266	39, 487	286, 770	3, 371, 651
Chairs and benches.....	499, 128	(³)	171, 104	15, 715	316, 802	955, 535
Other bedroom furniture ⁴	852, 878	408, 102	404, 413	780, 080	684, 271	2, 131, 404
Dining-room, total.....	11, 290, 122	1, 881, 063	4, 350, 845	2, 475, 208	2, 884, 268	23, 095, 811
Suites.....	3, 861, 339	1, 096, 371	361, 189	811, 431	426, 442	9, 162, 205
Chairs.....	2, 845, 241	391, 769	594, 524	219, 879	1, 114, 717	4, 822, 139
Buffets, china closets, and servers.....	2, 465, 492	(⁵)	178, 753	(⁵)	170, 203	3, 671, 494
Tables.....	1, 117, 542	7, 826	721, 136	398, 821	641, 815	2, 865, 886
Breakfast sets.....	985, 911	235, 845	491, 510	995, 568	530, 821	2, 538, 426
Other dining-room furni- ture ⁶	14, 597	149, 252	3, 733	49, 509	270	35, 661
Kitchen, total.....	944, 716	206, 841	492, 861	842, 791	1, 231, 353	2, 824, 732
Cabinets.....	(⁷)	(⁷)	56, 870	-----	(⁷)	715, 199
Chairs and stools.....	514, 195	(⁷)	84, 985	188, 180	1, 061, 826	1, 667, 075
Other kitchen furniture ⁸	430, 521	206, 841	351, 006	654, 611	169, 527	442, 458
Porch.....	74, 399	9, 280	31, 978	189, 997	124, 111	1, 382, 106
Hall.....	88, 786	80, 125	88, 677	268, 387	225, 005	163, 907
Miscellaneous and not spec- ified ⁹	1, 598, 566	1, 743, 337	608, 829	2, 702, 461	1, 319, 954	7, 108, 487

¹ Included in "Other living-room and library furniture" and in "Other States."² Radio cabinets, \$13,127,702; novelty furniture, \$5,735,322; unfinished frames for suites, chairs, etc., \$10,787,807; other and not specified, \$11,518,336.³ Cedar chests, \$7,126,019; cribs, \$3,371,386; other and not specified, \$1,898,176.⁴ Tea wagons, \$655,003; other and not specified, \$401,316.⁵ Included in "Other kitchen furniture" and in "Other States."⁶ Tables, \$4,338,687; other and not specified, \$741,231.⁷ Camp furniture, \$3,452,361; novelty furniture, \$4,051,794; juvenile furniture, \$3,107,864; other and not specified, \$17,599,387.⁸ Included in "Other bedroom furniture" and in "Other States."⁹ Included in "Other dining-room furniture" and in "Other States."

TABLE 6.—METAL HOUSEHOLD FURNITURE, BY KIND AND VALUE: 1927

KIND	Value	KIND	Value
Aggregate.....	\$40,390,229	Kitchen, total.....	\$1,606,315
droom, total.....	29,060,205	Cabinets.....	974,874
Beds.....	19,965,017	Tables.....	13,605
Dressers, chiffoniers, etc.....	1,096,370	Other kitchen furniture.....	617,836
Cribs.....	935,537	Porch, total.....	1,069,159
Other bedroom furniture.....	7,063,281	Swings and hammocks.....	956,367
Living-room and library, total.....	4,482,263	Benches and couches.....	69,573
Davenport, sofas, and day beds.....		Tables and chairs.....	43,219
Upholstered.....	2,741,671	Camp, total.....	703,870
Not upholstered.....	612,590	Cots.....	570,434
Tables.....	175,792	Tables and chairs (folding).....	108,436
Other living-room and library furniture.....	952,210	Other camp furniture.....	25,000
		Hall.....	226,889
		Miscellaneous and not specified.....	3,241,528

TABLE 7.—METAL HOUSEHOLD FURNITURE—VALUE, BY STATES: 1927

STATE	Value	STATE	Value
United States.....	\$40,390,229	Indiana.....	\$1,399,256
New York.....	11,854,268	Missouri.....	1,374,190
Pennsylvania.....	6,573,457	Ohio.....	993,449
Illinois.....	3,105,628	Massachusetts.....	472,225
New Jersey.....	1,757,949	Other States ¹	12,859,807

Connecticut, District of Columbia, Georgia, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Nebraska, North Carolina, Oregon, Pennsylvania, Rhode Island, Tennessee, Texas, Washington, and Wisconsin. The figures for these States, some of which reported larger values of products than some of us for which separate figures are given, are combined in order to avoid disclosing the production of individual establishments.

TABLE 8.—FIBER, RATTAN, REED, AND WILLOW HOUSEHOLD FURNITURE—VALUE, BY STATES: 1927

STATE	Value	STATE	Value
United States.....	\$21,124,450	Indiana.....	\$1,067,450
Michigan.....	5,961,811	California.....	1,044,229
Wisconsin.....	2,682,400	New Jersey.....	920,141
Massachusetts.....	2,586,145	Pennsylvania.....	882,315
New York.....	2,125,823	Illinois.....	741,962
		Other States ¹	3,112,174

Arkansas, Colorado, Connecticut, Florida, Georgia, Iowa, Louisiana, Maryland, Minnesota, Missouri, North Carolina, Ohio, Oregon, South Carolina, Tennessee, Vermont, Virginia, and Washington. The figures for these States, some of which reported larger values of products than some of those for which separate figures are given, are combined in order to avoid disclosing the production of individual establishments.

TABLE 9.—FIBER, RATTAN, REED, AND WILLOW HOUSEHOLD FURNITURE, BY KIND AND VALUE: 1927

KIND	Value	KIND	Value
Aggregate.....	\$21, 124, 450	Porch, total.....	\$1, 953, 300
Living-room and library, total.....	15, 581, 714	Chairs.....	791, 621
Suites:		Benches and couches.....	236, 205
Upholstered.....	6, 934, 526	Tables.....	200, 578
Not upholstered.....	223, 831	Swings.....	188, 760
Chairs and rockers:		Other porch furniture.....	536, 186
Upholstered.....	3, 686, 778	Dining-room, total.....	113, 839
Not upholstered.....	467, 059	Tables.....	18, 316
Davenport, sofas, day beds, etc.:		Chairs.....	17, 109
Upholstered.....	1, 747, 308	Suites and breakfast sets.....	15, 754
Not upholstered.....	140, 864	Buffets, tea wagons, and other	
Desks.....	971, 151	dining-room furniture.....	62, 660
Tables.....	712, 373	Bedroom.....	59, 845
Bookcases and cabinets.....	27, 292	Other.....	1 3, 415, 752
Other living-room and library			
furniture.....	671, 032		

¹ Novelty furniture, \$213,972; juvenile furniture, \$251,540; hall furniture, miscellaneous, and not specified, \$2,950,240.

TABLE 10.—FURNITURE AND FIXTURES FOR OFFICES, STORES, ETC., AND PUBLIC BUILDINGS, BY KIND, MATERIAL, AND VALUE: 1927

KIND	Total	Wood ¹	Metal
Aggregate.....	\$209, 692, 772	\$142, 559, 462	\$67, 133, 310
Furniture and fixtures for offices and stores, total.....	163, 911, 040	109, 397, 933	54, 513, 107
Office furniture—			
Desks.....	16, 049, 203	13, 426, 153	2, 623, 050
Chairs.....	10, 536, 240	10, 352, 491	183, 749
Lockers.....	4, 640, 831	82, 840	4, 557, 991
Other office furniture ²	42, 156, 045	11, 379, 310	30, 776, 735
Store furniture and fixtures—			
Shelving.....	7, 926, 646	1, 430, 914	6, 495, 732
Counters, tables, partitions, window backs, show			
cases, wall cases, display fixtures, and cabinets.....	49, 548, 662	45, 674, 774	3, 873, 888
Other store furniture and fixtures.....	33, 053, 413	27, 051, 451	6, 001, 962
Professional, laboratory, hospital, barber, and beauty-			
parlor chairs, tables, cots, etc.....	15, 203, 791	7, 366, 124	7, 837, 667
Furniture for public buildings (schools, theaters, assembly			
halls, and churches) and seats for public conveyances,			
total.....	30, 577, 941	25, 795, 405	4, 782, 536
Chairs.....	12, 608, 027	9, 557, 635	3, 050, 392
Desks.....	6, 404, 991	5, 950, 727	454, 264
Church pews, pulpits, etc.....	4, 719, 734	4, 719, 734	
Other, and seats for public conveyances ³	6, 845, 189	5, 567, 309	1, 277, 880

¹ Includes value of "Fiber, rattan, reed, and willow" furniture and fixtures, not shown separately to avoid disclosing the production of individual establishments.

² Includes \$22,349,357, value of filing equipment specifically reported. Of this amount \$4,307,039 was reported for wooden equipment and \$18,042,318 for metal equipment.

³ Value of seats for public conveyances not shown separately to avoid disclosing the production of individual establishments.

TABLE 11.—FURNITURE FOR PUBLIC BUILDINGS, BY KIND AND VALUE, BY STATES: 1927

STATE	Total	Desks	Chairs	Church pews, pulpits, etc.	Other ¹
United States.....	\$30,577,941	\$6,404,991	\$12,608,027	\$4,719,734	\$6,845,189
Michigan.....	9,352,068	2,423,339	4,632,332	932,871	1,363,526
Illinois.....	4,306,182	603,324	3,102,752	186,700	413,406
Massachusetts.....	3,886,867	501,933	1,249,773	753,278	1,381,883
Ohio.....	2,772,470	(²)	444,202	556,489	³ 1,771,779
Wisconsin.....	2,414,838	(²)	779,066	942,528	⁴ 693,244
Indiana.....	1,880,860	880,931	922,249	(²)	⁵ 77,680
California.....	574,817	28,764	312,115	93,743	140,195
New York.....	518,348	(²)	209,754	191,335	⁶ 27,259
Other States ¹	4,871,491	¹ 1,966,700	865,784	¹ 1,062,790	976,217

¹ Includes values of chairs and seats for public buildings and public conveyances, and for certain States, indicated, values of desks, chairs, church pews, etc., which could not be shown separately without disclosing the production of individual establishments.

² Included in items for "Other States" and in those in column headed "Other," to avoid disclosing the production of individual establishments.

³ See footnote 2.

⁴ Connecticut, Georgia, Iowa, Kansas, Kentucky, Louisiana, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, North Carolina, Oregon, Pennsylvania, Tennessee, Texas, Utah, Virginia, Washington, and West Virginia. The figures for these States, some of which reported larger values of products than some of those for which separate figures are given, are combined in order to avoid disclosing the production of individual establishments.

TABLE 12.—FURNITURE AND FIXTURES FOR OFFICES, STORES, ETC., BY KIND AND VALUE, BY STATES: 1927

STATE	Total	OFFICE FURNITURE		
		Desks	Chairs	Lockers and other office furniture ¹
United States.....	\$179,114,831	\$16,049,203	\$10,536,240	\$46,796,876
New York.....	44,143,909	3,529,960	660,074	18,874,375
Illinois.....	20,395,975	1,750,974	2,179,525	4,998,476
Ohio.....	21,927,305	1,985,245	2,298,855	7,625,562
Michigan.....	18,636,965	1,544,293	596,949	5,615,197
California.....	10,888,111	819,963	237,936	1,440,311
Pennsylvania.....	8,501,751	466,226	(²)	2,387,303
Wisconsin.....	7,427,948	(²)	1,416,925	1,746,584
Indiana.....	6,354,930	2,906,918	358,178	1,363,599
Massachusetts.....	5,308,280	1,029,511	1,102,967	205,449
Other States ¹	29,529,657	¹ 2,516,110	¹ 1,684,821	2,540,020

STATE	Professional, laboratory, hospital, barber, and beauty-parlor chairs, tables, cots, etc.	STORE FURNITURE AND FIXTURES		
		Shelving	Counters, tables, partitions, window backs, show-cases, wall cases, display fixtures, and cabinets	Other store furniture and fixtures
United States.....	\$15,203,791	\$7,926,646	\$49,548,662	\$33,053,413
New York.....	2,564,262	600,381	11,556,232	6,358,625
Illinois.....	3,285,768	3,139,558	6,383,815	4,657,859
Ohio.....	1,412,241	1,894,729	5,223,850	1,496,810
Michigan.....	241,187	117,321	1,953,639	8,568,379
California.....	713,991	217,424	4,218,985	3,739,501
Pennsylvania.....	290,112	244,419	3,799,890	¹ 1,313,801
Wisconsin.....	2,918,418	77,477	817,141	⁴ 451,403
Indiana.....	949,571	(²)	245,102	⁶ 531,562
Massachusetts.....	200,769	301,278	1,923,530	544,836
Other States ¹	2,627,532	¹ 1,334,059	13,420,478	5,400,637

¹ Of this amount \$22,349,357 represents the value of filing equipment specifically reported and \$4,640,831, value of lockers.

² Not shown separately to avoid disclosing the production of individual establishments; included in item "Other States."

³ Alabama, Arkansas, Colorado, Connecticut, District of Columbia, Florida, Georgia, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, North Carolina, Oregon, Rhode Island, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, and West Virginia. The figures for these States, some of which reported larger values of products than some of those for which separate figures are given, are combined in order to avoid disclosing the production of individual establishments.

⁴ Includes value of desks made in Wisconsin.

⁵ Includes value of chairs made in Pennsylvania.

⁶ Includes value of shelving made in Indiana.

TABLE 13.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY					Salaries	Wages	Cost of materials, supply, fuel and power		Value of products	Value added by manufac- ture 1
		Total	Propri- etors and firm mem- bers	Salariat officers and em- ployees	Wage earners (average for the year)	Horse- power			Materials and supplies	Fuel and power		
United States.....	3, 222	210, 301	1, 573	22, 426	186, 302	445, 179	\$60, 931, 924	\$236, 109, 312	\$378, 875, 835	\$10, 513, 760	\$879, 706, 306	\$400, 316, 711
Alabama.....	10	320	5	31	284	741	85, 870	257, 213	465, 666	13, 029	1, 085, 448	606, 763
Arkansas.....	12	1, 352	2	141	1, 209	2, 979	461, 084	1, 015, 041	2, 772, 874	116, 129	5, 431, 166	2, 542, 163
California.....	241	8, 947	208	1, 150	7, 588	18, 262	2, 894, 225	11, 014, 943	18, 528, 494	249, 468	41, 181, 934	22, 403, 972
Colorado.....	11	1, 147	10	21	116	201	70, 745	194, 272	443, 065	5, 421	837, 562	339, 076
Connecticut.....	29	1, 040	19	149	872	1, 320	371, 138	1, 305, 858	1, 750, 256	37, 212	4, 466, 113	2, 678, 645
Florida.....	6	47	1	8	38	187	18, 311	69, 108	129, 883	1, 619	282, 520	151, 018
Georgia.....	21	2, 304	10	146	2, 148	4, 077	369, 834	1, 769, 649	3, 270, 888	74, 761	6, 970, 962	3, 625, 613
Illinois.....	384	22, 791	153	2, 018	20, 010	44, 107	7, 758, 849	36, 158, 914	47, 753, 969	1, 280, 402	110, 618, 359	61, 577, 988
Indiana.....	210	19, 870	39	2, 031	17, 800	49, 708	5, 135, 401	19, 136, 401	37, 858, 942	1, 288, 834	78, 649, 183	40, 161, 807
Iowa.....	30	1, 049	7	149	1, 465	3, 914	424, 967	1, 577, 283	3, 651, 192	99, 000	7, 153, 010	3, 402, 818
Kansas.....	13	620	11	45	464	1, 660	94, 872	484, 243	644, 292	25, 878	1, 474, 073	804, 203
Kentucky.....	33	2, 418	7	238	2, 175	5, 746	639, 139	2, 066, 745	3, 329, 382	109, 862	7, 722, 695	4, 083, 451
Louisiana.....	18	730	9	101	641	1, 413	331, 450	565, 657	912, 274	24, 642	2, 061, 959	1, 065, 043
Maine.....	12	310	2	41	268	1, 117	63, 063	297, 770	467, 607	16, 495	1, 040, 176	566, 174
Maryland.....	55	2, 743	42	338	2, 343	6, 435	726, 993	2, 729, 068	4, 254, 317	119, 067	10, 009, 988	5, 636, 604
Massachusetts.....	194	9, 189	103	1, 099	8, 077	17, 230	2, 860, 056	11, 027, 153	16, 221, 445	460, 671	36, 796, 137	20, 114, 021
Michigan.....	174	23, 511	54	2, 120	21, 337	45, 483	6, 695, 673	28, 612, 181	35, 955, 586	1, 198, 711	94, 220, 740	57, 066, 443
Minnesota.....	50	2, 328	23	267	2, 061	3, 664	607, 348	2, 308, 896	3, 867, 212	115, 456	8, 724, 185	4, 741, 517
Mississippi.....	6	334	3	31	303	843	76, 223	251, 778	409, 640	10, 288	869, 582	449, 654
Missouri.....	89	3, 610	29	498	3, 083	10, 190	1, 445, 127	4, 101, 968	6, 134, 233	216, 065	15, 393, 488	9, 043, 190
Nebraska.....	12	306	5	45	256	738	130, 297	349, 638	795, 411	13, 388	1, 576, 663	767, 864
New Hampshire.....	19	765	9	68	688	2, 376	181, 881	797, 357	1, 222, 047	36, 485	2, 647, 123	1, 388, 591
New Jersey.....	67	2, 885	45	401	2, 483	4, 470	1, 271, 115	3, 832, 983	5, 258, 260	179, 529	12, 847, 389	7, 933, 694
New York.....	586	31, 694	326	4, 233	26, 985	54, 384	11, 278, 194	41, 368, 866	62, 301, 357	1, 579, 690	157, 446, 548	93, 565, 501
North Carolina.....	143	15, 094	42	831	14, 821	36, 948	2, 371, 122	12, 417, 590	27, 128, 871	573, 507	55, 551, 220	25, 848, 842

Ohio.....	174	11,930	46	1,568	10,322	26,374	4,230,512	13,910,491	20,767,752	689,996	51,821,451	30,363,703
Oregon.....	35	1,599	18	171	1,410	4,295	4,475,484	1,885,452	2,230,081	58,800	6,236,122	3,938,532
Pennsylvania.....	269	14,182	220	1,438	12,474	33,232	8,670,736	15,578,267	22,064,498	766,788	53,771,084	29,939,798
Rhode Island.....	7	130	6	23	96	99	52,376	138,704	23,613,417	4,177	602,339	284,745
Tennessee.....	45	3,795	15	266	3,514	8,191	691,740	2,722,392	5,200,578	159,408	11,156,331	5,787,345
Texas.....	22	1,139	11	127	1,001	3,129	315,409	1,157,328	2,028,565	55,054	4,102,693	2,018,074
Vermont.....	12	1,285	2	100	1,183	3,475	289,785	1,319,108	1,286,403	84,254	3,507,902	2,125,245
Virginia.....	48	5,736	13	324	5,399	12,696	883,084	4,306,839	10,459,626	189,770	23,969,756	15,266,460
Washington.....	59	1,622	57	201	1,364	4,054	485,433	1,692,052	2,792,117	56,838	5,889,212	3,090,257
West Virginia.....	11	842	3	67	772	2,838	177,748	1,053,030	2,081,803	43,138	4,279,112	2,149,171
Wisconsin.....	116	12,447	18	1,326	11,103	27,586	3,187,900	14,845,703	22,862,897	702,005	49,150,009	25,586,107
Other States ²	10	223	3	40	180	643	81,806	266,911	540,895	7,458	1,178,072	623,719

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² District of Columbia, 3 establishments; Idaho, 1; Oklahoma, 1; South Carolina, 3; South Dakota, 1; Utah, 1.

TURPENTINE AND ROSIN

[A preliminary report for this industry was issued under date of January 31, 1929]

Source of statistics.—The Bureau of the Census, in cooperation with the Bureau of Chemistry and Soils, Department of Agriculture, published annual statistics for the turpentine and rosin industry for the crop years ended March 31, 1922, 1923, and 1924. For the crop years ended March 31, 1925 and 1926, production statistics were compiled by the Turpentine and Rosin Producers' Association. The present report, which covers the crop year ended March 31, 1928, is one of the series presenting the results of the fourth biennial census of manufactures.

Description of the industry.—The turpentine and rosin industry consists in the distillation of the semifluid exudation from certain species of pine trees. This exudation is known by various names, as crude gum, crude turpentine, and dip. Relatively small quantities of wood turpentine and wood rosin are obtained from pine wood by steam and solvent extraction and by destructive distillation. Establishments engaged in the production of turpentine, or both turpentine and rosin, in this manner are treated as belonging to the wood-distillation industry, and no statistics for these secondary products are included in this report except in Tables 3 and 5.

Crop year.—The producing season in the turpentine and rosin industry commences in the spring, when the sap begins to flow. In order to conform as nearly as possible to the crop year and to make the task of reporting 12 months' activities less difficult for the operators, the data have been collected at the last 7 canvasses for the crop years ended March 31. The earlier census figures, however (except those for the crop years 1920–21, 1918–19, and 1917–18, in Table 3), relate to calendar years.

Cost of materials in comparison with value of products.—The cost of materials includes the rental of pine forests, the cost of fuel, containers, and other distillery supplies, and the amount paid for such crude gum as is purchased outright. In most cases, however, the gum is gathered by the establishment operating the distillery, and therefore a large part of the actual cost of materials at the distillery is represented by the compensation of the employees engaged in gathering the gum, which is reported under the head of "Wages." It appears probable, also, that the cost of materials as reported does not in all cases include the rental of pine forests (turpentine rights). As a result, the cost of materials shown for this industry is relatively low.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927-28

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-28.....	1,149	37,913	\$16,953,054	\$12,173,394	\$39,902,971	\$27,729,577	3,211
1925-26.....	1,007	29,413	15,190,076	11,887,395	42,364,413	30,477,018	3,138
1923-24.....	1,203	34,328	15,448,590	8,972,758	35,166,715	23,193,957	1,932
1921-22.....	1,062	27,422	9,512,177	6,199,179	23,300,845	17,101,666	(²)
1919.....	1,191	28,067	16,972,881	13,929,888	53,051,294	39,121,406	2,276
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	14.1	28.9	11.6	2.4	—5.8	—9.0	2.3
1923-1925.....	—16.3	—14.3	—1.7	32.5	20.5	16.4	62.4
1923-1927.....	—4.5	10.4	9.7	35.7	13.5	5.9	66.2
1919-1927.....	—3.5	35.1	—1.1	—12.6	—24.8	—29.1	41.1

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927-28, 1925-26, AND 1923-24

TYPE	1927-28		1925-26		1923-24	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	698	Horse-power 3,211	746	Horse-power 3,138	471	Horse-power 1,932
Steam engines.....	245	1,326	139	900	183	1,032
Steam turbines.....			4	13		
Internal-combustion engines.....	427	1,784	595	2,209	286	898
Water wheels and turbines.....	2	45	4	11		
Electric motors driven by purchased current.....	24	56	4	5	2	2
Electric motors, total.....	24	56	4	5	2	2
Driven by purchased current.....	24	56	4	5	2	2
Driven by current generated in establishment reporting.....						
Electric generators.....		Kilowatts	1	Kilowatts 15	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—PRODUCTION OF TURPENTINE AND ROSIN, FOR THE UNITED STATES: 1899 TO 1927-28

[These statistics were compiled as follows: For 1925-26 and 1924-25, for turpentine and rosin distilled from crude gum, by the Turpentine and Rosin Producers' Association, and for turpentine and rosin distilled from wood, by the Bureau of Chemistry and Soils, Department of Agriculture; all statistics for 1920-21, 1918-19, and 1917-18, by the Bureau of Chemistry and Soils; all statistics for 1927-28, 1923-24, 1922-23, 1921-22, 1919, 1914, 1909, 1904, and 1899, by the Bureau of the Census]

YEAR ¹	TURPENTINE (GALLONS)			ROSIN (BARRELS, 500 POUNDS)		
	Total	Distilled from crude gum ²	Distilled from wood ³	Total	Distilled from crude gum ²	Distilled from wood ³
1927-28	35,882,258	31,549,082	4,333,176	2,524,000	2,071,813	452,187
1925-26	27,261,425	23,922,250	3,339,175	1,903,370	1,578,866	324,504
1924-25	29,333,450	26,072,200	3,261,250	2,018,296	1,720,765	297,531
1923-24	29,781,944	27,174,580	2,607,364	1,990,865	1,790,087	200,778
1922-23	24,252,835	22,394,137	1,858,698	1,651,795	1,499,538	152,257
1921-22	24,820,620	24,378,854	441,766	1,690,971	1,661,624	29,347
1920-21	26,200,000	24,450,000	1,750,000	1,757,000	1,577,000	180,000
1919	19,228,174	17,693,841	1,534,333	1,269,717	1,138,660	131,057
1918-19	18,650,000	17,050,000	1,600,000	1,238,000	1,115,000	123,000
1917-18	24,900,000	23,700,000	1,200,000	1,631,000	1,531,000	100,000
1914	⁴ 27,648,939	26,980,981	575,557	⁵ 1,649,160	1,615,643	29,022
1909	⁶ 29,714,132	28,988,954	706,868	1,827,760	1,827,760	(?)
1904	31,129,236	30,687,051	442,185	1,964,674	1,964,674	(?)
1899	37,733,500	37,733,500	(?)	2,434,933	2,434,933	(?)

¹ Figures showing production of turpentine and rosin from crude gum relate to crop years ended Mar. 31, 1928, 1926, 1925, 1924, 1923, 1922, 1921, 1919, and 1918, and to calendar years 1919, 1914, 1909, 1904, and 1899. Figures for turpentine and rosin distilled from wood relate to crop years ended Mar. 31, 1926 and 1925. All others relate to calendar years.

² Compiled from data reported by establishments in the turpentine and rosin industry.

³ Compiled from data reported by establishments in the wood-distillation industry.

⁴ Includes 92,401 gallons of turpentine reported by establishments engaged in the manufacture of lumber and timber products.

⁵ Includes 4,495 barrels of rosin reported by establishments engaged in the manufacture of lumber and timber products.

⁶ Includes 18,310 gallons of turpentine reported by establishments engaged in the manufacture of lumber and timber products.

⁷ Not reported.

TABLE 4.—QUANTITY OF TURPENTINE AND ROSIN DISTILLED FROM CRUDE GUM AND NUMBER OF CROPS WORKED, BY STATES: 1927-28 AND 1925-26

STATE	1927-28			1925-26 ¹		
	Production		Number of crops worked ²	Production		Number of crops worked
	Turpentine (gallons)	Rosin (barrels of 500 pounds)		Turpentine (gallons)	Rosin ³ (barrels of 500 pounds)	
United States	31,549,082	2,071,813	15,061.4	23,922,250	1,578,866	13,663.4
Alabama	2,179,710	144,381	1,109.7	1,557,200	102,775	931.8
Florida	10,275,713	711,852	5,651.2	8,649,050	570,837	5,562.7
Georgia	15,060,761	953,923	6,910.7	10,301,750	679,915	5,796.6
Louisiana and Texas ⁴	1,357,929	93,601	432.8	2,914,250	192,339	1,017.3
Mississippi	1,879,418	117,688	577.5			
North Carolina and South Carolina ⁴	795,551	50,368	379.5	500,000	33,000	355.0

¹ Statistics for 1925-26 were compiled by the Turpentine and Rosin Producers' Association.

² Number of crops worked by establishments reporting, not including crops worked by those gathering crude gum for sale as such.

³ Data on the production of rosin were not given in the reports on which these figures are based but have been calculated from the turpentine figures by the use of the factor 3.3.

⁴ Combined to avoid disclosing the production of individual establishments.

TABLE 5.—STOCKS OF TURPENTINE AND ROSIN ON HAND MARCH 31, 1928, AND MARCH 31, 1926

[Figures for stocks on hand at gum-turpentine stills March 31, 1928, compiled by the Bureau of the Census, Department of Commerce; all others by the Bureau of Chemistry and Soils, Department of Agriculture]

STOCKS HELD AT ¹ —	MAR. 31, 1928		MAR. 31, 1926	
	Turpentine (gallons)	Rosin (barrels of 500 pounds)	Turpentine (gallons)	Rosin (barrels of 500 pounds)
Total.....	2 6, 327, 204	2 608, 734	4, 052, 834	444, 221
Gum-turpentine stills.....	508, 391	101, 998	378, 400	92, 245
Plants of consuming industries.....	1, 367, 883	211, 903	848, 890	165, 543
Wood-distillation plants.....	2 543, 114	98, 101	233, 944	22, 838
Ports and distributing points.....	3, 907, 816	196, 732	2, 591, 600	163, 595

¹ Data are included for shipments in transit from stills and distillation plants and to distributing points and consuming plants.

² Not including stocks at destructive wood-distillation plants.

TABLE 6.—GENERAL STATISTICS, BY STATES: 1927-28

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	1, 149	40, 876	843	2, 120	37, 913	3, 211
Alabama.....	113	3, 112	104	138	2, 870	399
Florida.....	343	14, 207	213	757	13, 237	1, 129
Georgia.....	614	18, 870	464	953	17, 453	1, 387
Louisiana and Texas ¹	18	1, 634	1	110	1, 523	95
Mississippi.....	28	2, 068	20	117	1, 931	181
North Carolina and South Carolina ¹	33	985	41	45	899	20

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$2, 615, 681	\$16, 953, 054	\$11, 708, 436	\$464, 958	\$39, 902, 971	\$27, 729, 577
Alabama.....	171, 563	1, 290, 386	964, 606	32, 637	2, 899, 579	1, 902, 336
Florida.....	986, 849	6, 211, 546	3, 573, 674	97, 282	13, 499, 130	9, 828, 174
Georgia.....	1, 070, 925	7, 345, 068	5, 504, 457	293, 192	18, 065, 937	12, 268, 288
Louisiana and Texas ¹	150, 104	754, 452	417, 562	16, 984	1, 897, 920	1, 463, 374
Mississippi.....	182, 735	982, 757	857, 509	17, 166	2, 548, 886	1, 674, 211
North Carolina and South Carolina ¹	53, 505	368, 845	390, 628	7, 697	991, 519	593, 194

¹ Combined to avoid disclosing operations of individual establishments.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

WOOD PRESERVING

[A preliminary report for this industry was issued under date of November 28, 1928]

Description of the industry.—This industry embraces establishments engaged primarily in treating wood with creosote, zinc chloride, or other preservatives to prevent decay and for protection against insects. The treatment is applied either under pressure or by a nonpressure process. Among the products are railway ties, poles, paving blocks, etc. The treatment of battery separators and the staining of wood shingles are also included under this classification.

Comparability of statistics.—The figures for cost of materials and value of products for 1925 and earlier years, shown in Table 1, are not comparable with those for 1927 because of the inclusion for 1927 and the exclusion for earlier years of the estimated value of forest products not owned by the establishments reporting. (See Table 3.)

Detailed statistics of products (Tables 3 and 4).—A special schedule, calling for detailed data on the several classes of products, was used for this industry for the first time at the census for 1927. For this reason no comparable detailed product statistics can be given for earlier years. Some of the establishments engaged in wood preserving were not prepared to report their operations in the detail called for on the questionnaire and therefore supplied estimated figures. This fact should be given consideration in any analytical study of the statistics.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927.....	193	12,259	\$13,725,557	\$141,554,898	\$184,557,640	\$43,002,742	50,608
1925.....	131	8,416	9,605,973	66,709,471	91,184,881	24,474,910	33,521
1923.....	103	6,520	6,878,258	50,138,913	71,082,869	20,943,956	37,998
1921.....	78	4,153	4,501,849	34,432,474	47,421,997	12,989,523	(²)
1919.....	73	3,978	4,342,277	23,241,858	33,239,313	9,997,455	16,104
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	47.3	45.7	42.9	(³)	(³)	(³)	51.0
1923-1925.....	27.2	29.1	39.7	33.0	28.3	16.9	-11.8
1923-1927.....	87.4	88.0	99.5	(³)	(³)	(³)	33.2
1919-1927.....	164.4	208.2	216.1	(³)	(³)	(³)	214.2

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Figures not comparable. See text, "Comparability of statistics," above.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	1,301	Horse-power 50,606	772	Horse-power 33,521	466	Horse-power 37,998
Steam engines.....	420	30,041	412	26,080	}	34,968
Steam turbines.....	42	1,759	14	684		401
Internal-combustion engines.....	25	1,207	20	432		
Water wheels and turbines.....	14	811				
Electric motors driven by purchased current.....	800	16,788	326	6,325	128	2,629
Electric motors, total.....	976	20,183	516	9,903	311	6,652
Driven by purchased current.....	800	16,788	326	6,325	128	2,629
Driven by current generated in establishment reporting.....	176	3,395	190	3,578	183	4,023
Electric generators.....	46	Kilowatts 2,902	61	Kilowatts 3,130	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—FOREST PRODUCTS TREATED WITH PRESERVATIVES—VALUE, BY OWNERSHIP: 1927

	Value
Wood-preserving industry, all products, aggregate.....	\$184,557,640
Forest products treated, total.....	¹ 183,648,327
Forest products owned by establishments reporting, selling value after treatment.....	113,194,606
Forest products not owned by establishments reporting:	
Estimated value before treatment.....	44,550,760
Amount received for treatment.....	25,902,961
Other products (not normally belonging to the industry).....	909,313

¹ In addition, wood preserving to the value of \$287,217 was done by establishments classified in other industries.

CENSUS OF MANUFACTURES: 1927

TABLE 4.—FOREST PRODUCTS TREATED WITH PRESERVATIVES—VALUE, BY OWNERSHIP AND BY STATES: 1927

[States in combination are named in the order of their importance]

STATE	Total value of products treated	SELLING VALUE AFTER TREATMENT OF PRODUCTS—	
		Owned by establishments reporting	Not owned by establishments reporting ¹
United States.....	² \$183, 648, 327	\$113, 194, 606	\$70, 453, 721
Texas.....	23, 318, 846	16, 870, 119	6, 448, 727
Illinois.....	15, 235, 978	7, 480, 736	7, 755, 242
Minnesota.....	13, 223, 561	10, 632, 291	2, 591, 270
Kentucky and Tennessee ³	11, 030, 612	2, 523, 088	8, 507, 524
Arkansas, Missouri, and Oklahoma ⁴	10, 888, 413	7, 298, 438	3, 589, 975
Louisiana.....	10, 049, 267	4, 360, 935	5, 688, 332
Mississippi.....	9, 619, 149	4, 905, 302	4, 713, 847
Ohio.....	8, 266, 734	4, 014, 044	4, 252, 690
New Jersey, Pennsylvania, and Maryland ³	8, 146, 362	5, 677, 455	2, 468, 907
New York.....	8, 055, 101	3, 221, 005	4, 834, 096
Florida, South Carolina, and North Carolina ³	6, 588, 091	5, 825, 651	762, 440
Virginia.....	6, 570, 093	5, 580, 666	989, 427
California.....	6, 479, 944	6, 339, 877	140, 067
Alabama.....	6, 142, 371	2, 209, 716	3, 932, 655
Georgia.....	5, 314, 090	3, 372, 946	1, 941, 144
Connecticut, New Hampshire, Massachusetts, and Maine ³	5, 153, 366	1, 320, 558	3, 832, 808
Washington.....	5, 018, 365	3, 267, 669	1, 750, 696
Oregon and Idaho ¹	4, 601, 589	3, 739, 607	861, 982
Indiana.....	3, 652, 343	792, 925	2, 859, 418
New Mexico, Colorado, and Arizona ³	3, 045, 776	2, 539, 972	505, 804
Other States ⁴	13, 248, 276	11, 221, 606	2, 026, 670

¹ Includes the estimated value of materials before treatment and the value of treatment.² See Table 3.³ Combined to avoid disclosing the output of individual establishments.⁴ Wyoming, West Virginia, Michigan, Wisconsin, and Montana.

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufac- ture
		Total	Pro- pri- etors and firm mem- bers	Salari- ed officers and em- ployees	Wage earners (average year)				Materials and supplies	Fuel and power		
United States	193	13,725	5	1,461	12,259	50,605	\$3,290,771	\$13,725,557	\$139,147,628	\$2,407,270	\$184,557,640	\$43,002,742
Alabama	6	304	—	45	349	662	91,715	423,120	4,134,142	64,706	6,142,371	1,943,523
California	10	360	—	27	333	6,170	60,199	435,670	5,809,068	59,367	6,479,944	611,509
Georgia	7	402	—	45	447	2,554	112,350	405,094	3,560,594	81,086	5,314,090	1,672,410
Idaho	7	120	—	17	113	274	38,133	170,823	1,621,371	18,264	1,044,565	304,930
Illinois	11	1,132	—	64	1,068	2,143	130,251	1,156,879	12,349,106	177,957	15,265,978	2,738,915
Indiana	6	310	—	23	287	1,125	47,085	336,084	2,753,315	60,907	3,652,343	838,121
Kentucky	3	393	—	16	377	312	33,734	507,732	7,110,700	47,509	8,782,876	1,615,667
Louisiana	10	911	—	113	798	3,348	21,127	628,157	7,731,312	123,417	10,272,130	2,417,401
Michigan	8	244	—	33	209	879	78,968	294,705	1,975,612	59,311	2,852,728	817,805
Minnesota	16	900	1	151	748	2,106	267,181	960,448	9,354,252	127,946	13,223,561	3,741,333
Mississippi	6	794	—	102	692	1,980	228,334	670,422	6,960,079	179,347	9,619,268	2,479,840
Missouri	4	207	—	5	202	793	11,259	235,063	3,107,050	23,136	3,890,766	755,580
New York	6	486	—	119	367	935	263,498	415,907	6,114,938	26,066	8,055,101	1,914,697
Ohio	13	775	—	106	667	2,259	343,030	841,332	5,514,615	100,681	8,095,279	3,079,983
Oregon	5	149	2	18	131	2,877	42,871	204,831	2,067,125	38,883	2,657,075	551,067
Pennsylvania	6	143	—	22	121	609	33,579	171,767	3,286,010	26,851	3,866,132	253,271
Tennessee	4	237	—	23	214	830	78,373	194,030	1,722,362	20,992	2,247,736	504,382
Texas	9	1,171	—	209	1,902	7,659	448,286	2,040,349	16,431,405	344,770	23,382,846	6,606,671
Virginia	9	526	—	43	483	1,271	115,361	511,995	4,488,541	84,433	6,570,063	1,997,119
Washington	11	427	—	60	367	2,139	165,342	521,207	2,940,288	71,100	5,180,108	2,159,720
Wyoming	3	162	—	17	149	927	33,949	211,465	3,202,259	52,491	3,300,164	245,414
Other States ¹	34	2,332	—	203	1,175	9,645	496,146	2,356,639	26,895,454	613,050	33,262,486	5,753,982

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Arizona, 2 establishments; Arkansas, 1; Colorado, 1; Connecticut, 3; Florida, 4; Maine, 1; Maryland, 1; Massachusetts, 2; Montana, 3; New Hampshire, 2; New Jersey, 3; New Mexico, 2; North Carolina, 2; Oklahoma, 2; South Carolina, 2; West Virginia, 2; Wisconsin, 1.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES

[This table presents summary statistics for the industries in Group 3 other than those for which separate reports are given on pp. 465-537. More detailed statistics for 1927 are given, for the United States as a whole, in Table II, p. 1316; and summaries for States and large cities, carrying statistics for these industries, in comparison with those for other industries, appear in Tables III and IV, pp. 1330 and 1416. See "General explanations," pp. 3-12; in particular, "Limitation of statistics to establishments reporting products valued at \$5,000 or more," p. 6, "Power equipment," p. 7, "Cost of materials," p. 8, "Value added by manufacture," p. 9, and "State and city statistics," p. 11]

BASKETS AND RATTAN AND WILLOW WARE, NOT INCLUDING FURNITURE

[Principal products: Baskets of all kinds; fruit, floral, berry, and truck packages; laundry and bushel hampers; coffee drums; splint and wicker trays; rattan and cane webbing; and, in general, small articles made of veneer, reed, rattan, and willow. (Rattan and willow furniture are treated as products of the furniture industry. See Table 9, p. 526.) For detailed statistics for products, see p. 546]

YEAR AND STATE	Num- ber of estab- lish- ments	Wage earners (average for the year)	Wages	Cost of ma- terials, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
<i>United States</i>							
1927.....	236	9,295	\$6,607,806	\$9,231,144	1 \$21,728,900	\$12,497,756	17,821
1925.....	230	6,808	5,032,572	6,757,651	1 16,658,060	9,900,409	12,794
1923.....	215	5,838	4,453,469	6,118,869	1 14,712,549	8,593,680	11,474
1921.....	198	4,795	3,651,485	5,230,368	1 11,241,001	6,010,633	(?)
1919.....	375	4,533	3,369,086	4,904,241	1 11,821,167	6,916,926	6,319
<i>States, 1927</i>							
Arkansas.....	4	241	120,961	130,787	309,769	178,982	504
California.....	8	194	200,687	653,819	1,239,874	586,055	393
Delaware.....	6	455	272,849	433,911	959,932	526,021	850
Florida.....	4	288	158,282	241,318	516,600	275,282	430
Georgia.....	3	233	77,083	79,898	221,393	141,495	360
Illinois.....	7	121	104,450	163,097	342,614	179,517	261
Indiana.....	13	990	681,584	594,261	1,879,974	1,285,713	1,850
Iowa.....	4	209	137,614	156,992	596,203	439,211	216
Kentucky and Tennessee ¹	5	202	155,800	208,258	493,424	258,166	565
Maryland.....	14	451	294,795	361,894	859,756	497,862	1,014
Massachusetts.....	8	220	187,872	279,968	644,792	364,824	161
Michigan.....	14	412	365,950	429,370	1,060,954	631,584	1,304
Minnesota and Wisconsin ²	7	231	188,799	162,380	489,309	326,929	334
New Jersey.....	14	344	303,177	731,684	1,394,049	662,365	789
New York.....	52	973	997,999	1,422,006	3,108,336	1,686,330	1,995
North Carolina.....	8	344	174,683	310,693	690,039	379,346	725
Ohio.....	19	479	462,070	302,083	1,091,591	789,503	1,074
Oregon and Washington ³	4	306	188,131	184,709	470,279	285,570	813
Pennsylvania.....	8	258	265,548	544,855	1,104,524	559,669	221
Texas.....	13	865	555,186	532,612	1,682,855	1,150,843	1,448
Virginia.....	5	1,139	477,752	1,020,099	1,868,238	848,139	1,310
Other States ⁴	16	340	236,534	286,545	704,395	444,850	1,204

¹ Does not include value of baskets made as secondary products by establishments classified in other industries: 1927, \$3,558,155; 1925, \$2,283,257; 1923, \$1,151,242; 1921, \$888,396; 1919, \$951,731.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Alabama, 3 establishments; Colorado, 1; Connecticut, 1; Kansas, 2; Maine, 1; Mississippi, 1; Missouri, 2; New Hampshire, 2; Rhode Island, 1; Utah, 1; Vermont, 1. The value of products reported for each of these States is smaller than that for any State shown separately and is smaller than that for at least one of the States in each group for which combined figures are given.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

BILLIARD AND POOL TABLES, BOWLING ALLEYS, AND ACCESSORIES

[Principal products: Billiard and pool tables, pockets, cues, balls, chalk, and other accessories; bowling alleys and accessories. For detailed statistics for products, see p. 546]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927-----	34	1,184	\$1,549,880	\$2,393,993	\$7,111,871	\$4,717,878	2,335
1925-----	33	1,037	1,354,004	1,780,623	5,614,319	3,833,696	2,120
1923-----	32	876	1,400,590	2,228,920	6,236,394	4,007,474	2,897
1921-----	36	925	1,056,978	3,377,473	7,367,920	3,990,447	(3)
1919-----	49	2,101	2,425,353	6,100,852	15,733,047	9,632,195	5,261
<i>States, 1927</i>							
Illinois-----	4	44	54,794	104,682	217,447	112,765	42
Massachusetts-----	4	22	28,045	83,678	182,472	98,794	90
New York-----	12	132	189,802	308,883	1,058,228	749,345	382
Pennsylvania-----	4	25	37,680	63,947	141,597	77,650	79
Other States ¹ -----	10	961	1,239,559	1,832,803	5,512,127	3,679,324	1,760

¹ Does not include values of billiard and pool tables, bowling alleys, and accessories made as secondary products by establishments classified in other industries: 1927, \$439,153; 1925, \$247,433; 1923, \$327,716; 1921, \$270,101; 1919, \$297,503.

² Wage earners employed on repair work, to the number of 339 and \$249,990 for wages, are not included.

³ Not called for on schedule.

⁴ Maine, 1 establishment; Michigan, 2; New Jersey, 1; Ohio, 3; Vermont, 1; Virginia, 1; Wisconsin, 1. One of these States reported a larger value of products than any of the States for which separate figures are given in the table.

BOXES, CIGAR, WOODEN

[The manufacture of wooden boxes in which cigars are packed. For detailed statistics for products, see p. 549]

<i>United States</i>							
1927-----	136	4,571	\$3,925,329	\$5,620,725	\$12,908,739	\$7,288,014	5,478
1925-----	155	4,836	3,966,578	5,450,995	12,924,806	7,474,411	5,210
1923-----	170	5,101	4,170,639	6,249,422	14,796,255	8,546,633	6,054
1921-----	171	4,657	3,728,362	6,778,439	14,316,954	7,538,515	(9)
1919-----	189	5,218	3,512,236	6,336,540	13,110,213	6,773,673	5,009
<i>States, 1927</i>							
California-----	5	65	57,780	58,375	175,157	116,782	133
Florida-----	7	621	547,996	707,270	1,704,448	997,178	865
Illinois-----	6	100	102,214	124,840	341,415	216,575	187
Indiana-----	5	71	56,443	72,483	195,811	123,328	95
Iowa-----	4	17	15,428	22,573	52,843	30,270	31
Kentucky-----	3	24	19,802	27,859	56,469	28,610	56
Louisiana, South Carolina, and West Virginia ¹ -----	5	193	129,608	205,792	500,971	295,179	149
Maryland-----	4	97	78,578	85,794	225,146	139,352	93
Massachusetts and New Hampshire ² -----	4	89	82,497	165,535	315,461	149,926	92
Michigan-----	7	233	189,016	261,849	707,610	445,761	190
Minnesota, Missouri, and Wisconsin ³ -----	7	107	102,697	178,625	398,296	219,671	360
New Jersey-----	5	271	264,539	483,441	961,628	478,187	212
New York-----	13	599	655,074	531,725	1,505,324	973,599	609
Ohio-----	15	250	187,331	274,924	710,333	435,409	308
Pennsylvania-----	40	1,799	1,403,161	2,379,974	4,956,434	2,676,460	2,083
Other States ⁴ -----	6	41	33,165	39,666	101,393	61,727	65

¹ Does not include value of wooden cigar boxes made as secondary products by establishments classified in other industries: For 1927, \$825,945; 1925, \$841,525; 1923, \$733,407; 1921, \$827,132; 1919, \$814,082.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Colorado, 1 establishment; Connecticut, 1; Kansas, 1; Texas, 1; Utah, 1; Washington, 1. The value of products reported for each of these States is smaller than that for any State shown separately and is smaller than that for at least one of the States in each group for which combined figures are given.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

CORK PRODUCTS

[Principal products: Bottle corks, life preservers and buoys, cork board for insulation, tiling, and other articles made of cork, such as washers, disks, etc. For special statistics for cork products, see p. 546]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927.....	27	3,185	\$3,560,013	\$9,395,123	¹ \$17,368,825	\$7,973,702	11,683
1925.....	33	3,297	3,538,263	7,268,711	¹ 16,020,309	8,751,598	11,084
1923.....	39	3,478	3,594,204	8,045,577	¹ 15,566,455	7,520,878	10,052
1921.....	45	2,774	2,672,289	6,773,301	¹ 12,967,768	6,194,467	(²)
1919.....	62	3,545	3,387,114	9,134,950	¹ 16,282,239	7,147,289	8,556
<i>States, 1927</i>							
New Jersey.....	7	631	740,107	2,429,633	3,696,042	1,266,409	4,017
New York.....	12	633	793,307	2,183,896	4,098,661	1,914,765	1,102
Other States ³	8	1,921	2,026,599	4,781,594	9,574,122	4,792,528	6,564

¹ Does not include value of cork products made as secondary products by establishments classified in other industries: 1927, \$971,768; 1925, \$1,147,252; 1923, \$1,083,433; 1921, \$659,860; 1919, \$143,910.

² Not called for on schedule.

³ Illinois, 1 establishment; Michigan, 2; Ohio, 1; Pennsylvania, 4.

EXCELSIOR

[Principal products: Excelsior, wood wool, and excelsior pads, wrappers, etc. For statistics on wood consumed and excelsior produced, see p. 547]

<i>United States</i>							
1927.....	64	1,272	\$1,181,485	\$2,547,114	¹ \$4,821,098	\$2,273,984	10,930
1925.....	72	1,300	1,179,667	2,573,016	¹ 4,901,085	2,328,069	11,993
1923.....	75	1,285	1,206,204	2,765,841	¹ 5,361,830	2,595,989	10,939
1921.....	79	1,087	978,186	2,754,731	¹ 4,213,214	1,458,483	(²)
1919.....	95	1,242	1,144,503	2,521,967	¹ 4,913,450	2,391,483	10,332
<i>States, 1927</i>							
Arkansas, Louisiana, and Mississippi ³	4	156	108,389	143,456	353,137	209,681	710
Michigan and Indiana ³	6	207	240,053	646,132	1,193,822	547,690	2,073
New Hampshire.....	6	62	68,369	186,675	301,993	115,318	1,151
New York.....	7	56	55,788	137,293	257,216	119,923	575
Virginia.....	15	206	154,642	240,402	496,170	255,768	1,706
Wisconsin.....	8	299	295,225	736,381	1,332,329	595,948	2,191
Other States ⁴	18	286	259,022	456,775	886,431	429,656	2,524

¹ Does not include value of excelsior made as a secondary product by establishments classified in other industries: 1927, \$44,936; 1925, \$75,135; 1923, \$145,909; 1921, \$139,285; 1919, \$120,066.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Alabama, 2 establishments; California, 1; Florida, 1; Georgia, 2; Kentucky, 2; Maine, 1; Maryland, 1; Minnesota, 1; Missouri, 1; North Carolina, 2; Oregon, 1; Tennessee, 1; Utah, 1; Washington, 1.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

LASTS AND RELATED PRODUCTS

[Principal products: Lasts for boots and shoes, shoe-trees, shoe stretchers, display forms for boots and shoes, patterns, etc. For statistics on wood consumed in the manufacture of lasts, see p. 547]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927-----	59	1,718	\$2,504,116	\$2,505,032	1 \$7,529,149	\$5,024,117	7,655
1925-----	62	2,035	3,012,136	3,049,014	1 9,301,105	6,252,091	7,512
1923-----	64	2,258	3,122,737	3,196,640	1 9,899,925	6,703,285	6,995
1921-----	67	2,618	3,492,152	4,335,965	1 12,377,360	8,041,395	(²)
1919-----	64	2,910	3,415,950	3,932,662	1 12,470,539	8,537,877	5,539
<i>States, 1927</i>							
Massachusetts-----	29	782	1,072,355	1,005,526	3,173,593	2,168,067	2,882
Missouri-----	4	110	182,254	208,081	554,531	346,450	806
New York-----	12	454	664,730	735,289	2,053,156	1,317,867	2,126
Ohio, Indiana, and Illinois ³ -----	4	181	335,780	364,513	1,066,179	701,666	1,106
Pennsylvania-----	4	69	86,790	50,739	214,810	164,071	271
Other States ⁴ -----	6	122	162,207	140,884	466,880	325,996	464

¹ Does not include value of lasts and related products made as secondary products by establishments classified in other industries: 1927, \$896,444; 1925, \$762,375; 1923, \$511,960; 1921, \$702,461; 1919, \$186,614.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Maine, 1 establishment; New Hampshire, 3; New Jersey, 1; Wisconsin, 1.

MATCHES

[Principal products: Matches of all kinds, such as "strike anywhere," "safety," "book," and "block." For special statistics for products, see p. 547]

<i>United States¹</i>							
1927-----	19	3,905	\$4,130,988	\$11,884,075	\$24,905,835	\$13,021,760	17,607
1925-----	25	4,627	4,703,871	12,913,267	23,741,469	10,828,202	16,314
1923-----	22	4,712	4,424,742	11,786,382	23,940,064	12,153,682	15,388
1921-----	22	4,539	4,280,438	13,239,571	30,273,873	17,034,302	(²)
1919-----	21	3,725	3,059,537	6,852,970	18,495,876	11,642,906	12,947

¹ Statistics for States can not be given without disclosing operations of individual establishments.

² California, 1 establishment; Illinois, 1; Massachusetts, 1; Michigan, 1; Minnesota, 2; New Hampshire, 1; New York, 3; Ohio, 4; Pennsylvania, 2; Washington, 1; West Virginia, 1; Wisconsin, 1.

³ Not called for on schedule.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

MIRROR AND PICTURE FRAMES

[Principal products: Frames, chiefly of wood, for mirrors, pictures, photographs, and medallions; framed pictures and picture-frame moldings. Establishments engaged in framing pictures, etc., to individual order are not included]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927	166	4,460	\$5,893,073	\$7,056,460	\$19,488,721	\$12,432,261	6,228
1925	162	4,230	5,645,706	6,834,953	19,169,907	12,334,954	6,102
1923	223	4,496	5,761,320	6,178,448	18,641,496	12,463,048	4,497
1921	259	3,846	4,879,454	5,643,719	15,448,208	9,804,489	(2)
1919	429	4,708	4,775,227	7,227,232	18,384,562	11,157,330	4,659
<i>States, 1927</i>							
California	8	109	144,494	245,164	671,471	426,307	228
Georgia, Texas, and Florida ¹	4	33	23,770	66,211	236,211	170,000	9
Illinois	38	2,472	3,267,572	3,407,914	9,610,222	6,202,308	3,058
Indiana and West Virginia ¹	4	362	405,654	453,905	1,336,897	882,992	929
Maryland	6	172	154,726	348,741	839,635	490,894	205
Massachusetts	16	108	249,995	281,677	798,596	516,919	170
Michigan	3	17	27,992	40,840	109,533	68,693	7
Minnesota and Wisconsin ¹	3	34	47,595	79,020	205,142	126,122	47
Missouri	5	24	28,717	33,469	99,941	66,472	10
New York	50	670	1,049,284	1,461,355	3,918,405	2,457,050	943
Ohio	5	188	257,137	222,161	772,072	549,911	373
Pennsylvania	10	132	145,018	274,483	515,999	241,516	214
Washington and Oregon ¹	5	29	39,777	68,254	175,077	106,823	9
Other States ¹	9	50	50,342	73,266	199,520	126,254	26

¹ Does not include value of mirror and picture frames made as secondary products by establishments classified in other industries: 1927, \$285,576; 1925, \$174,998; 1923, \$248,191; 1921, \$238,008; 1919, \$180,519.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Colorado, 3 establishments; Connecticut, 2; Maine, 1; Oklahoma, 1; Rhode Island, 1; Utah, 1.

PULP GOODS

[Principal products: Palls, dishes, trays, fiber canisters, tubs, and boxes; vulcanized tubing, sheets, etc. The pulp-goods industry formerly included the manufacture of wall board, other than gypsum wall board, now classified under "Wall plaster, wall board, and floor composition," and therefore the statistics for 1921 and prior years are not comparable with those for 1923 and subsequent years]

<i>United States</i>							
1927	44	2,996	\$3,782,927	\$11,375,407	\$23,950,127	\$12,574,720	17,158
1925	35	3,017	3,767,333	10,286,201	20,270,005	9,983,804	11,338
1923	40	3,648	4,089,761	11,208,769	20,435,852	9,227,083	13,605
1921	60	4,718	5,621,612	16,252,330	31,213,154	14,960,824	(2)
1919	40	3,041	3,608,314	11,381,972	23,608,403	12,226,431	12,273
<i>States, 1927</i>							
Delaware	9	1,108	1,333,615	4,036,566	8,351,566	4,315,000	3,145
Indiana, Illinois, and Wisconsin ¹	6	130	184,078	526,799	1,128,215	601,416	319
Massachusetts, New York, Maine, and Pennsylvania ¹	15	1,490	1,950,583	6,115,319	13,067,061	6,951,742	12,743
New Hampshire, Michigan, Rhode Island, and Washington ¹	5	77	83,663	206,773	375,890	169,117	164
New Jersey	4	124	144,905	155,222	401,171	245,949	523
Ohio	5	67	86,083	334,728	626,224	291,496	164

¹ Does not include value of pulp goods made as secondary products by establishments classified in other industries: 1927, \$280,000; 1925, \$255,683; 1923, \$60,260.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

REFRIGERATORS AND REFRIGERATOR CABINETS, EXCLUSIVE OF MECHANICAL REFRIGERATING EQUIPMENT

[Principal products: Refrigerators and refrigerating equipment using ice as the cooling agent]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
<i>United States</i>							
1927	165	9,551	\$12,617,121	\$25,094,718	\$58,163,054	\$33,063,336	24,216
1925	167	9,360	12,688,982	24,744,336	57,665,842	32,921,506	23,297
1923	132	8,485	10,732,610	21,694,669	50,076,444	28,381,775	17,136
1921	116	5,804	7,160,594	16,313,562	33,010,226	16,696,664	(2)
1919	122	5,786	5,809,351	11,948,972	26,048,808	14,099,836	13,029
<i>States, 1927</i>							
California	15	280	479,756	822,072	1,822,759	1,000,687	857
Illinois	10	429	696,863	1,106,555	2,613,406	1,506,851	1,883
Indiana	6	597	792,000	1,820,193	6,688,814	4,868,624	1,031
Iowa	3	134	174,473	363,912	830,672	466,760	316
Massachusetts	11	183	285,837	433,765	1,066,519	632,754	252
Michigan	11	2,573	2,958,133	6,368,451	11,735,456	5,167,005	6,379
Minnesota	6	800	1,007,144	1,814,247	5,123,598	3,309,351	2,218
Missouri	9	421	641,911	1,134,535	3,740,812	2,606,277	1,163
New York	33	954	1,611,544	2,667,580	6,439,604	3,772,024	2,447
Ohio	7	205	331,097	592,921	1,681,932	939,011	966
Pennsylvania	11	433	768,976	1,900,977	3,673,916	1,772,939	818
Washington	4	25	31,104	62,249	134,446	72,197	66
Wisconsin	10	692	792,812	1,721,622	3,527,932	1,806,310	2,025
Other States ²	29	1,775	2,045,971	4,085,642	9,183,188	5,097,546	4,295

¹ Includes values of miscellaneous products, normally belonging to other industries, made as secondary products by establishments engaged primarily in the manufacture of ice refrigerators: 1927, \$2,342,420; 25, \$3,146,182; corresponding amounts for earlier years not calculated. Does not include values of refrigerators made as secondary products by establishments classified in other industries: 1927, \$1,230,192; 1925, \$43,813; 1923, \$332,530; 1921, \$587,412; 1919, \$315,455.

² Not called for on schedule.

³ Colorado, 1 establishment; Connecticut, 2; Georgia, 1; Kentucky, 1; Louisiana, 1; Maine, 2; Maryland, Nebraska, 1; New Hampshire, 1; New Jersey, 6; North Carolina, 1; Tennessee, 4; Texas, 3; Vermont, 2; Virginia, 1; West Virginia, 1. Certain of these States reported larger values of products than some of the States shown separately.

WINDOW AND DOOR SCREENS AND WEATHER STRIP

Principal products: Window screens, door screens, and weather strip, irrespective of the materials used. For detailed statistics for products, see page 543]

<i>United States</i>							
1927	214	3,661	\$4,805,657	\$9,303,982	\$22,643,361	\$13,339,379	11,520
1925	183	3,803	4,687,461	9,545,351	22,397,907	12,852,556	10,674
1923	165	3,687	4,196,519	9,565,525	21,256,148	11,690,623	9,515
1921	157	2,129	2,655,825	6,102,420	12,037,778	5,935,358	(2)
1919	214	2,179	2,046,768	4,897,339	10,932,857	6,035,468	7,515
<i>States, 1927</i>							
Arkansas, District of Columbia, and Virginia	3	282	312,907	500,727	1,034,247	533,520	726
California	16	195	278,574	432,303	1,144,545	712,242	988
Colorado, Washington, and Oregon	4	25	37,311	36,672	101,917	65,245	39
Georgia, Florida, North Carolina, and Kansas	5	13	13,941	26,275	58,104	31,829	30
Illinois	31	320	519,451	1,453,368	3,496,144	2,042,776	859

¹ Does not include values of window and door screens and weather strips made as secondary products by establishments classified in other industries: 1927, \$6,935,250; 1925, \$8,568,542; 1923, \$953,502; 1921, \$865,688; 19, \$968,759.

² Not called for on schedule.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

WINDOW AND DOOR SCREENS AND WEATHER STRIP—Continued

[For "Principal products" see note at head of this industry, p. 543]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
Indiana.....	5	11	15,557	22,674	62,076	39,402	29
Kentucky and Tennessee..	7	425	450,530	799,763	1,873,477	1,073,714	1,304
Louisiana.....	6	33	32,249	40,022	100,356	60,334	79
Maine, Vermont, Connecticut, New Hampshire, Rhode Island.....	8	491	564,479	1,114,988	2,761,385	1,646,387	1,515
Maryland.....	6	84	96,173	132,539	324,075	191,236	169
Massachusetts.....	22	153	226,220	356,896	852,529	495,633	468
Michigan.....	13	383	459,146	1,290,852	2,565,632	1,274,780	1,633
Minnesota, Iowa, and Wisconsin.....	4	187	219,354	574,083	1,476,533	902,450	559
Missouri.....	16	167	250,953	430,159	1,320,499	890,340	582
New Jersey.....	7	84	193,733	203,093	696,634	493,541	134
New York.....	26	233	356,594	591,915	1,449,199	857,284	440
Ohio.....	10	250	342,880	485,627	1,355,086	869,459	842
Oklahoma.....	5	35	40,777	113,530	301,679	183,149	46
Pennsylvania.....	10	183	254,698	488,058	1,163,767	675,709	691
Texas.....	10	102	109,830	205,128	505,477	300,349	387

WOODEN GOODS, NOT ELSEWHERE CLASSIFIED

[Principal products: All wooden goods not classified in other industries; for example, rolling pins, articles for kitchen, dairy, laundry, and miscellaneous uses, such as dishes, trays, bowls, meat boards, toothpicks, ironing boards and tables, washboards, clothespins, grain measures, tailors' pressing blocks, flagpoles, etc. For detailed statistics for products, see p. 549]

United States							
1927.....	193	4,081	\$4,240,340	\$7,769,637	\$18,401,832	\$10,632,195	21,067
1925.....	200	4,596	4,672,427	9,060,303	20,237,514	11,177,211	20,446
1923.....	196	5,727	5,133,626	10,292,152	21,733,624	11,441,472	22,438
1921.....	196	5,402	4,902,295	9,938,455	20,230,973	10,292,518	(2)
1919.....	245	6,443	5,661,674	10,173,353	21,793,261	11,619,908	25,874
States, 1927							
California.....	15	135	166,114	297,005	741,821	444,816	407
Connecticut.....	4	21	22,627	63,831	123,990	60,159	119
Illinois.....	14	281	348,296	667,873	1,567,099	899,226	973
Indiana.....	10	181	174,987	328,920	714,701	385,781	845
Maine.....	11	414	424,568	670,573	1,654,113	983,540	2,300
Massachusetts.....	13	265	303,461	510,913	1,093,690	582,777	1,280
Michigan.....	10	302	291,447	769,980	1,730,799	960,819	2,018
Minnesota, Washington, and Iowa.....	5	397	418,866	738,266	1,804,905	1,066,639	1,705
Missouri.....	4	37	39,666	147,650	280,765	133,115	312
New Hampshire.....	5	32	28,067	30,349	86,119	55,770	426
New Jersey.....	6	28	40,471	64,307	165,861	101,554	84
New York.....	30	666	779,146	1,062,981	2,988,846	1,925,865	4,299
Ohio.....	17	420	419,708	1,071,766	2,270,479	1,198,713	1,519
Oregon.....	3	14	16,301	24,930	62,800	37,870	80
Pennsylvania.....	20	330	310,841	450,638	1,100,140	649,502	1,607
Vermont.....	11	173	152,621	198,018	469,469	271,451	714
West Virginia, Delaware, North Carolina, and Maryland.....	5	296	210,374	448,410	1,087,423	639,013	1,755
Wisconsin.....	5	64	74,561	188,046	389,488	201,442	478
Other States.....	5	25	18,218	35,181	69,324	34,143	146

¹ Does not include values of wooden goods, not elsewhere classified, made as secondary products by establishments classified in other industries: 1927, \$1,767,134; 1925, \$1,828,519; 1923, \$2,448,812; 1921, \$925,256; 1919, \$3,007,054.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Kansas, 1 establishment; Louisiana, 1; Mississippi, 1; Tennessee, 1; Texas, 1.

SUMMARY FOR INDUSTRIES IN GROUP 3 WHICH ARE NOT COVERED BY SEPARATE REPORTS, BY STATES—Continued

WOOD TURNED AND SHAPED, NOT ELSEWHERE CLASSIFIED

[Principal products: Bobbins, bungs, brush blocks, dowels, handles, rollers, spools, picker sticks for looms, and other turned and shaped wooden articles, wood carvings, and marquetry. For detailed statistics for products, see p. 549]

YEAR AND STATE	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927.....	555	11,856	\$12,092,945	\$18,294,270	¹ \$42,128,173	\$23,833,903	56,338
1925.....	521	10,352	10,189,965	15,575,623	¹ 35,490,581	19,914,958	44,664
1923.....	519	11,286	10,925,511	17,055,428	¹ 38,077,098	21,021,670	43,368
1921.....	528	9,144	8,614,750	15,530,268	¹ 31,322,040	15,791,772	(²)
1919.....	722	10,649	9,307,242	16,609,215	¹ 34,847,139	18,237,924	39,722
<i>States, 1927</i>							
Alabama.....	4	59	41,067	79,195	144,608	65,413	397
Arkansas.....	24	564	426,500	868,745	1,643,483	774,738	2,033
California.....	12	72	122,532	71,182	313,592	242,410	293
Connecticut.....	13	147	155,713	189,707	514,427	324,720	863
Georgia.....	5	199	126,418	209,200	431,668	222,468	799
Illinois.....	31	687	915,021	1,143,301	2,870,061	1,721,760	2,695
Indiana.....	20	485	494,660	1,246,055	2,393,118	1,147,063	2,381
Kentucky.....	7	502	450,594	948,186	1,689,348	741,162	1,717
Louisiana.....	6	169	135,214	252,190	551,057	298,867	778
Maine.....	53	1,482	1,305,437	2,006,075	4,670,720	2,664,645	8,660
Maryland.....	5	100	88,088	174,223	300,301	126,079	485
Massachusetts.....	35	798	870,323	998,813	2,453,007	1,454,194	3,213
Michigan.....	30	920	1,172,082	1,180,990	3,561,022	2,380,032	3,111
Missouri.....	15	273	222,535	463,820	942,615	478,795	1,262
New Hampshire.....	21	276	282,122	330,399	907,646	577,247	1,613
New Jersey.....	19	157	200,906	222,084	616,698	394,614	731
New York.....	54	621	882,768	962,336	2,493,713	1,531,377	3,867
North Carolina.....	11	158	128,502	239,031	530,732	291,701	668
Ohio.....	32	751	864,521	1,493,639	3,291,988	1,798,349	3,866
Pennsylvania.....	45	843	950,590	1,251,538	3,115,799	1,864,261	3,545
Rhode Island.....	6	279	272,642	280,532	695,625	415,093	608
South Carolina.....	4	105	100,128	253,456	463,937	210,481	206
Tennessee.....	26	875	670,545	1,358,664	2,917,901	1,559,237	4,356
Texas.....	3	46	49,318	54,682	179,787	125,105	315
Vermont.....	36	756	666,487	969,884	2,400,892	1,431,038	4,626
Virginia.....	8	151	150,157	313,402	603,923	290,521	895
Washington and Oregon ³	9	118	130,287	377,823	666,486	288,663	811
West Virginia and Mississippi ³	5	157	130,678	177,548	421,223	243,675	636
Wisconsin.....	9	61	53,528	121,705	224,512	102,807	638
Other States ⁴	7	45	33,582	50,866	118,284	67,418	286

¹ Does not include value of wood, turned and shaped, made as secondary products by establishments classified in other industries: 1927, \$1,757,455; 1925, \$2,618,304; 1923, \$1,469,025; 1921, \$984,874; 1919, \$2,508,836.

² Not called for on schedule.

³ Combined in order to avoid disclosing data supplied by individual establishments.

⁴ Colorado, 1 establishment; Florida, 1; Iowa, 1; Minnesota, 2; Oklahoma, 2.

SPECIAL STATISTICS

BASKETS AND RATTAN AND WILLOW WARE—PRODUCTION, BY KIND AND VALUE: 1927

[See "Baskets and rattan and willow ware, not including furniture," p. 538]

KIND	Value
1. Baskets and rattan and willow ware industry, total value.....	\$21, 728, 900
2. Baskets and hamper.s, and reed, rattan, and willow ware, other than furniture.....	20, 239, 053
3. Other products (not normally belonging to the industry).....	1, 453, 891
4. Amount received for custom and contract work.....	35, 956
5. Baskets and hampers, and reed, rattan, and willow ware, made as secondary products in other industries.....	3, 558, 155
Baskets and rattan and willow ware, all industries, total value (sum of 2 and 5).....	23, 797, 208
Baskets and hampers—	
Made of veneer.....	19, 283, 798
Made of reed, rattan, and willow.....	2, 554, 240
Reed, rattan, and willow ware other than baskets and hampers and furniture.....	1, 959, 170

BILLIARD AND POOL TABLES, BOWLING ALLEYS, AND ACCESSORIES—PRODUCTION, BY KIND AND VALUE: 1927

[See "Billard and pool tables, bowling alleys, and accessories," p. 539]

KIND	Value
1. Billard and pool tables, etc., industry, all products, total value.....	\$7, 111, 871
2. Billard and pool tables, bowling alleys, and accessories.....	6, 803, 243
3. Other products (not normally belonging to the industry).....	181, 287
4. Amount received for custom and contract work.....	127, 341
5. Billard and pool tables, etc., made as secondary products in other industries.....	439, 153
Billard and pool tables, etc., all industries, total value (sum of 2 and 5).....	7, 242, 396
Billard and pool tables.....	3, 034, 725
Billard and pool table accessories.....	1, 975, 498
Bowling alleys.....	1, 482, 808
Bowling-alley accessories.....	749, 365

CORK PRODUCTS—PRODUCTION, BY KIND AND VALUE: 1927

[See "Cork products," p. 540]

KIND	Value
1. Cork-products industry, all products, total value.....	\$17, 368, 825
2. Cork products.....	16, 993, 488
3. Other products.....	375, 337
4. Cork products made as secondary products in other industries.....	971, 768
Cork products, all industries, total value (sum of 2 and 4).....	17, 965, 256
Cork stoppers and bottle closures.....	6, 294, 089
Cork insulation products.....	5, 774, 260
Cork specialties.....	5, 896, 907

EXCELSIOR.—WOOD CONSUMED AND EXCELSIOR PRODUCED, BY STATES: 1927¹

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. See "Excelsior," p. 540]

STATE	WOOD CONSUMED (CORDS)					Excelsior produced (tons of 2,000 lbs.)
	Total	Cotton-wood	Yellow pine	Basswood	Yellow poplar	
United States.....	178,860	98,741	60,560	18,909	650	² 189,692
Arkansas, Mississippi, and Louisiana ³	18,738	337	18,301	-----	100	20,310
Michigan and Indiana ³	34,108	33,758	-----	-----	350	33,604
New Hampshire.....	11,187	11,187	-----	-----	-----	12,683
New York.....	6,586	4,916	-----	1,670	-----	7,819
Virginia.....	26,555	-----	26,555	-----	-----	33,014
Wisconsin.....	49,120	37,896	-----	11,224	-----	49,136
Other States ⁴	32,566	10,647	15,704	6,015	200	33,126

¹ Does not include data for excelsior to the value of \$44,936 made by establishments engaged primarily in other lines of manufacture.

² Includes approximately 35,000 tons (estimated in part) of excelsior produced and used in establishments manufacturing excelsior pads, wrappers, etc.

³ Combined in order to avoid disclosing data reported by individual establishments.

⁴ See note under "Excelsior" p. 540.

LASTS.—WOOD CONSUMED IN THE MANUFACTURE OF LASTS, BY 54 ESTABLISHMENTS: 1927

[The combined value of products reported by 54 establishments which reported consumption of wood in detail was \$7,210,985, or 95.8 per cent of the total value of products for the industry as a whole. The remaining five establishments did not report consumption of wood in detail. See "Lasts," p. 541]

STATE	TOTAL		MAPLE		BASSWOOD, BEECH, BIRCH, AND PERSIMMON	
	Blocks (thousands)	M feet b. m.	Blocks (thousands)	M feet b. m.	Blocks (thousands)	M feet b. m.
United States.....	8,431	737	8,403	594	28	143
Massachusetts.....	3,626	158	3,613	16	13	142
Missouri.....	895	-----	895	-----	-----	-----
Ohio, Indiana, and Illinois.....	1,258	-----	1,258	-----	-----	-----
New York.....	2,127	357	2,127	356	-----	1
Pennsylvania.....	217	-----	202	-----	15	-----
Other States.....	308	222	308	222	-----	-----

MATCHES.—PRODUCTION, BY KIND AND VALUE: 1927

[See "Matches," p. 541]

KIND	Number	Value
Match industry, all products, total value.....	-----	\$24,905,835
Matches, total value.....	-----	24,845,404
Cases.....	2,280,203	8,662,727
Gross boxes.....	26,849,578	12,210,151
Books, thousands.....	1,551,304	3,972,526
Other products.....	-----	60,481

WINDOW AND DOOR SCREENS AND WEATHER STRIP—PRODUCTION, BY KIND AND VALUE: 1927

[See "Window and door screens and weather strip," p. 543]

KIND	Value
1. Window and door screens and weather strip industry, all products, total value.....	\$22,643,361
2. Window and door screens and weather strip, value.....	18,703,812
3. Other products.....	3,939,549
4. Window and door screens and weather strip made as secondary products in other industries.....	6,935,250
Window and door screens and weather strip, all industries, total value (sum of 2 and 4) ..	25,639,062
Window and door screens.....	20,848,161
Weather strip.....	4,790,901

WOOD CONSUMED BY 397 ESTABLISHMENTS ENGAGED IN THE MANUFACTURE OF TURNED AND SHAPED WOOD PRODUCTS AND 138 ESTABLISHMENTS ENGAGED IN THE MANUFACTURE OF OTHER WOODEN GOODS: 1927

[The total values of products reported by 397 establishments classified in the "Wood, turned and shaped" industry and 138 establishments classified in the "Wooden goods" industry which reported the consumption of wood in detail were 78.3 per cent and 80.2 per cent, respectively, of the total values of products for the two industries. The remaining 153 establishments manufacturing turned and shaped wood products and 55 establishments manufacturing other wooden goods did not report consumption of wood in detail. See "Wood, turned and shaped," p. 545, and "Wooden goods," p. 544]

KIND OF WOOD	TOTAL		TURNED AND SHAPED WOODEN PRODUCTS		OTHER WOODEN GOODS	
	M feet b. m.	Cords	M feet b. m.	Cords	M feet b. m.	Cords
Total.....	244,844	137,552	173,679	118,933	71,165	18,619
Alder.....	110	—	10	—	100	—
Ash.....	20,244	19,418	19,507	19,356	737	62
Basswood.....	4,377	—	1,316	—	3,061	—
Beech.....	23,827	2,371	15,523	1,471	8,304	900
Birch.....	48,960	33,803	40,066	21,814	8,894	11,989
Cedar.....	535	—	426	—	109	—
Chestnut.....	235	245	233	245	2	—
Dogwood.....	10	3,865	10	3,865	—	—
Elm.....	1,230	16	993	16	237	—
Fir.....	6,839	—	233	—	6,606	—
Gum and tupelo.....	18,956	—	11,103	—	7,853	—
Hemlock.....	2,352	25	1,109	25	2,243	—
Hickory.....	18,780	51,233	17,921	51,233	859	—
Locust.....	38	11,135	25	11,135	13	—
Mahogany.....	555	—	551	—	4	—
Maple.....	51,355	3,674	43,494	2,774	7,861	900
Oak.....	4,414	3,615	3,804	3,552	610	63
Persimmon.....	725	—	725	—	—	—
Poplar.....	3,138	15	1,418	15	1,720	—
Redwood.....	239	—	138	—	101	—
Spruce.....	9,882	25	124	25	9,858	—
Sycamore.....	1,393	—	1,019	—	374	—
Walnut.....	681	—	677	—	4	—
Western pine.....	450	—	—	—	450	—
White pine.....	10,445	5,747	1,297	1,192	9,148	4,555
Yellow pine.....	7,097	—	5,661	—	1,436	—
Other and not specified.....	7,877	2,365	7,296	2,215	581	150

WOODEN CIGAR BOXES—PRODUCTION, BY KIND AND VALUE: 1927

[See "Boxes, cigar, wooden," p. 539]

KIND	Value
"Boxes, cigar, wooden" industry, all products, total value.....	\$12, 908, 739
Wooden cigar boxes.....	11, 949, 376
Other products.....	959, 363
Wooden cigar boxes made as secondary products in other industries.....	825, 945
Wooden cigar boxes, all industries, total value (sum of 2 and 4).....	12, 775, 321
Size one-tenth (100 cigars).....number 1.. 4, 234, 611..	558, 425
Size one-twentieth (50 cigars).....number 1.. 78, 667, 267..	9, 069, 889
Size one-fortieth (25 cigars).....number 1.. 12, 852, 293..	1, 514, 503
Size not specified and miscellaneous sizes.....number 1.. 7, 194, 124..	1, 032, 504

Estimated in part.

WOOD TURNED AND SHAPED AND OTHER WOODEN GOODS—PRODUCTION, BY KIND AND VALUE: 1927

[See "Wood turned and shaped," p. 545, and "Wooden goods, p. 544]

KIND	Value
"Wood turned and shaped" and "Wooden goods" industries, all products, total value..	\$60, 530, 005
Wood turned and shaped and other wooden goods.....	57, 119, 349
Other products.....	2, 611, 743
Amount received for custom and contract work.....	798, 913
Wood turned and shaped and other wooden goods made as secondary products by establishments classified in other industries.....	3, 524, 589
Wood turned and shaped and other wooden goods, all industries, total value (sum of 2 and 5).....	60, 643, 938
Handles, total.....	16, 928, 892
Tool.....	11, 651, 968
Other.....	5, 276, 924
Woodenware—bowls, dishes, pastry boards, toothpicks, clothespins, ironing boards and clothes racks, wash boards, etc.....	11, 390, 772
Textile turnings and shapes.....	6, 753, 737
Furniture turnings and shapes.....	5, 211, 380
Ladders and parts.....	4, 811, 443
Vehicle stock.....	1, 722, 669
Toy parts and novelties.....	1, 372, 843
Miscellaneous turned and shaped wooden goods, not specified.....	12, 452, 202

Group 4.—PAPER AND PAPER PRODUCTS

THE GROUP AS A WHOLE

This group is divided into two definite subgroups, (1) Paper and wood pulp and (2) Manufactures of paper. The products of the first of these subgroups become the materials for the second, and as a result there is a large amount of duplication in the cost-of-materials and value-of-products figures for the group as a whole. The products of the industries in the second subgroup are, for the most part, commodities known as converted paper products.

Prior to the census for 1927, a single industry classification, "Paper and wood pulp," covered all establishments engaged in the manufacture of either pulp or paper, but at the census for 1927 two separate classifications, "Paper" and "Pulp, wood and other fiber," were established.

Summary statistics for the group, for the two subgroups, and for the separate industries are given in the table following and complete reports for the several industries are given on pages 552 to 591.

SUMMARY FOR GROUP 4.—PAPER AND PAPER PRODUCTS: 1921 TO 1927

[See "Regrouping of industries and renumbering of groups," p. 19]

INDUSTRY	Cen- sus year	Number of estab- lish- ments	Wage earn- ers (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufac- ture	Horse- power
Total.....	1927	2,989	225,506	273,571	1,084,932	1,799,780	714,848	2,814,795
	1925	2,743	222,745	264,692	921,659	1,560,480	638,821	2,575,552
	1923	2,704	219,955	251,242	879,938	1,466,229	586,291	2,314,533
	1921	2,618	185,572	203,547	670,408	1,082,331	411,923	(²)
Paper and wood pulp.....	1927	929	123,360	162,002	724,111	1,138,090	413,979	2,642,806
	1925	763	123,842	160,146	605,860	971,882	366,022	2,427,010
	1923	746	120,677	151,477	573,727	907,347	333,620	2,178,623
	1921	738	105,294	127,029	445,992	667,436	221,443	(²)
Paper (wood and other fiber) ³	1927	710	98,566	130,475	572,786	919,891	347,106	2,642,806
	1927	219	24,794	31,527	151,325	218,198	66,873	(²)
Manufactures of paper.....	1927	2,060	102,146	111,569	360,821	661,690	300,869	171,989
	1925	1,980	98,903	104,546	315,798	588,597	272,759	148,510
	1923	1,958	99,278	99,765	306,210	558,882	252,672	135,910
	1921	1,880	80,278	76,518	224,416	414,895	190,480	(²)
Paper, exclusive of those made in paper mills.	1927	88	6,463	6,394	40,735	57,490	16,755	9,336
	1925	66	5,585	5,524	29,957	45,978	16,021	6,414
	1923	64	4,686	4,587	29,375	42,272	12,897	6,108
	1921	57	3,707	3,475	29,797	41,100	11,393	(²)
Paper and other, not elsewhere classified.	1927	1,219	56,398	57,701	168,464	306,555	138,091	81,300
	1925	1,229	57,148	57,172	151,712	281,944	130,232	76,185
	1923	1,216	56,855	53,966	144,079	264,209	120,130	61,687
	1921	1,191	46,242	40,477	88,268	174,248	55,981	(²)
Paper cutting and designing..	1927	60	2,024	2,707	7,544	16,871	9,327	3,915
	1925	49	1,086	1,084	2,436	6,201	3,765	1,355
	1923	47	1,207	1,242	2,643	6,109	3,466	1,262
	1921	40	762	803	2,019	4,558	2,539	(²)
Paperboard, not made in pa- per mills.	1927	9	658	849	2,868	5,581	2,713	1,779
	1925	13	978	1,188	3,475	7,288	3,814	1,795
	1923	15	1,176	1,339	5,332	9,340	4,008	2,354
	1921	20	1,157	1,172	3,914	7,642	3,728	(²)
Paper envelopes.....	1927	153	9,745	10,755	28,973	56,006	27,033	11,391
	1925	135	9,052	9,987	27,423	51,189	23,766	10,288
	1923	132	9,241	9,525	27,528	50,752	23,224	9,904
	1921	123	7,944	8,181	24,052	43,910	19,859	(²)
Paper labels and tags.....	1927	121	6,141	8,000	16,259	34,398	18,138	6,869
	1925	113	5,356	6,730	13,096	28,045	14,950	4,808
	1923	103	5,048	6,224	12,130	26,023	13,893	4,538
	1921	89	4,152	4,777	8,820	19,538	10,719	(²)
Paper patterns.....	1927	17	1,069	1,418	2,569	13,782	11,213	1,101
	1925	16	1,243	1,595	2,001	13,665	11,664	813
	1923	19	929	1,098	1,174	9,259	8,085	971
	1921	18	816	844	1,338	10,530	9,193	(²)
Paper goods, not elsewhere classified.	1927	340	14,837	17,765	78,797	140,948	62,151	42,955
	1925	310	13,386	15,403	70,700	124,217	53,518	35,324
	1923	311	14,724	15,662	66,958	116,162	49,204	37,840
	1921	290	11,510	11,807	49,872	84,129	34,257	(²)
Paper.....	1927	53	4,811	5,981	14,612	30,059	15,447	13,343
	1925	49	5,069	5,863	14,999	30,069	15,070	11,528
	1923	51	5,412	6,221	16,991	34,756	17,764	11,246
	1921	43	3,988	4,982	16,336	29,148	12,812	(²)

¹ Each total is the sum, expressed to the nearest thousand, of the individual items expressed in units this reason the totals in some cases may differ slightly from the sums of the items as here given.

² Not called for on schedule.

³ No separate statistics prior to 1927.

⁴ Combined total for paper and pulp.

⁵ Not reported separately; included with paper.

PAPER AND PULP (WOOD AND OTHER FIBER)

[Preliminary reports for these industries were issued under date of February 5, 1929]

Description of the industries.—These industries embrace the manufacturing operations carried on in (1) establishments engaged primarily in the manufacture of pulp from wood and other fiber and (2) those engaged primarily in the manufacture of paper. These two lines of manufacture, formerly treated as a single industry, have been treated as separate industries at the census for 1927. The principal material used in the paper mills is wood pulp, the greater part of which is manufactured in pulp mills operated in conjunction with the paper mills. Small quantities of pulp made from rags, waste paper, straw, and other fibers of various kinds are also used.

Comparison with previous census years.—The statistics for 1925 and earlier census years are not strictly comparable with those for 1927 because of the change in classification explained in the preceding paragraph. This has resulted in an increase in the amount of duplication in the combined figures for materials and for products for the two industries. At preceding censuses the pulp made and consumed in the same establishments was treated as an intermediate product, to which no cost or value was assigned. At the census for 1927, however, the value of such pulp, amounting to \$172,791,689, has been included both in the value of products of the pulp industry and in the cost of materials for the paper industry.

In addition, the values of "interplant transfers" (transfers from one plant to another operated by the same company) of pulp, which were separately reported at censuses prior to that for 1927, are now included in the value of products of the pulp industry and in the cost of materials of the paper industry. These values were as follows: 1925, \$18,789,213; 1923, \$28,189,246; 1921, \$26,432,900; 1919, \$21,802,862. The values of interplant transfers were not separately reported for 1927 but were presumably included in most cases in the item "Produced for use by company reporting." (This item is made up mainly of production for consumption in the same plants.) The figures for 1927 are, however, more nearly complete than those for preceding years, since they show for the first time the approximate total quantities and values of the pulp and of the paper manufactured in the United States.

The value of paper used in the manufacture of converted paper products by the establishments producing it—\$64,236,990 in 1927—was not separately reported at earlier censuses but was included in the value of paper. This resulted in some duplication in the total value of products, since the value of the paper used was covered by the value of the converted paper products. Inasmuch as the amount of this duplication in the figures for earlier years is unknown and therefore can not be eliminated, it was necessary, in order to render the combined figures for 1927 comparable with those for preceding years, to add the item in question to the cost of materials and to the value of products for 1927.

IMPORTS AND EXPORTS

The statistics shown in Table 11 were taken from the Summary of Imports and Exports of the United States, published by the Bureau of Foreign and Domestic Commerce. All quantities of paper and paper boards have been reduced to tons of 2,000 pounds for convenience in making comparisons.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years.
See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
927 -----	² 929	123,360	\$162,002,097	³ \$724,110,963	⁴ \$1,138,089,666	⁵ \$413,978,703	2,642,806
Paper -----	710	98,566	130,474,739	572,785,538	919,891,465	347,105,927	2,642,806
Pulp (wood and other fiber) -----	219	24,794	31,527,358	151,325,425	218,198,201	66,872,776	
Paper and pulp—combined figures adjusted for comparison with preceding years -----	764	123,360	162,002,097	³ 615,556,264	⁴ 1,029,534,967	⁵ 413,978,703	2,642,806
925 -----	763	123,842	160,145,932	605,880,286	971,882,320	366,022,034	2,427,010
923 -----	746	120,677	151,476,693	573,727,153	907,346,992	333,619,839	2,178,623
921 -----	738	105,294	127,028,767	445,992,351	667,435,847	221,443,496	(⁶)
919 -----	729	113,759	135,690,642	467,482,637	788,059,377	320,576,740	1,849,699
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927 -----	0.1	—0.4	1.2	1.6	5.9	13.1	8.9
1923-1925 -----	2.3	2.6	5.7	5.6	7.1	9.7	11.4
1923-1927 -----	2.4	2.2	6.9	7.3	13.5	24.1	21.3
1919-1927 -----	4.8	8.4	19.4	31.7	30.6	29.1	42.9

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Includes data for 165 establishments engaged in the manufacture of both pulp and paper, each of these establishments being counted twice in the total. See "Comparison with previous census years," p. 552.

³ See "Comparison with previous census years."

⁴ Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR PAPER AND PULP (WOOD AND OTHER FIBER) COMBINED, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total -----	22,663	<i>Horse-power</i> 2,642,806	18,003	<i>Horse-power</i> 2,427,010	16,017	<i>Horse-power</i> 2,178,623
Steam engines -----	2,796	546,190	2,699	593,330	3,370	902,878
Steam turbines -----	566	522,169	576	418,758		
Internal-combustion engines -----	48	6,047	35	5,385	37	6,689
Water wheels and turbines -----	1,975	899,157	2,147	931,398	2,308	882,002
Electric motors driven by purchased current -----	17,278	669,243	12,546	478,139	10,302	387,054
Electric motors, total -----	50,716	1,641,204	39,895	1,309,517	28,679	984,645
Driven by purchased current -----	17,278	669,243	12,546	478,139	10,302	387,054
Driven by current generated in establishment reporting -----	33,438	971,961	27,349	831,378	18,377	597,591
Electric generators -----	1,293	<i>Kilowatts</i> 692,451	1,323	<i>Kilowatts</i> 627,187	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—PRODUCTS—SUMMARY FOR THE UNITED STATES: 1927

KIND	Quantity (tons, 2,000 pounds)	Value
Paper industry, all products, total.....		\$919, 891, 465
Paper and paper boards produced for sale.....	9, 209, 682	¹ 807, 969, 857
Products other than paper and paper boards (not normally belonging to the industry).....		² 111, 921, 608
Paper and paper boards produced for use in same plant.....	792, 388	64, 236, 990
Paper and paper boards produced for sale and produced for use in plant, total.....	³ 10, 002, 070	³ 872, 206, 847
Pulp industry, all products, total.....		218, 198, 201
Pulp (wood and other fiber):		
For consumption.....	3, 783, 249	172, 791, 689
For sale.....	586, 342	41, 385, 021
Products other than pulp (not normally belonging to the industry) ⁴		4, 021, 491

¹ Includes \$83,344,583, value of paper and paper boards made for consumption in mills other than those in which produced but under the same management.

² Converted paper products, \$110,641,403; other products, \$1,280,205.

³ Corresponding figures for 1925, 9,182,204 tons, valued at \$862,588,916. No comparable statistics for 1925 for the other items covered by this table.

⁴ Fiber conduit, tannic acid, caustic soda, wood flour, etc.

TABLE 4.—PAPER INDUSTRY—PRINCIPAL PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1927 AND 1925

[This table shows, by States, the output of the principal products for which separate figures can be given without disclosing the production of individual establishments. Where the product of chief importance can not be shown, only the State total is given]

STATE	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
United States.....	10, 002, 070	\$872, 206, 847	9, 182, 204	\$862, 588, 916
California.....	219, 366	13, 138, 842	177, 045	11, 612, 312
Connecticut.....	176, 707	14, 263, 197	194, 986	15, 946, 428
B ards.....	162, 601	10, 744, 147	172, 897	11, 876, 969
Other.....	14, 106	3, 549, 050	22, 089	4, 069, 459
Delaware.....	31, 453	4, 478, 118	27, 268	4, 267, 326
Illinois.....	531, 434	30, 307, 240	484, 540	29, 098, 184
Boards.....	345, 047	15, 493, 018	333, 723	16, 355, 132
Building papers.....	115, 673	8, 189, 221	96, 131	6, 988, 726
Other.....	70, 714	6, 625, 001	54, 686	5, 754, 326
Indiana.....	336, 898	19, 040, 649	327, 689	21, 357, 746
Boards.....	292, 587	16, 067, 587	266, 041	15, 465, 577
Other.....	44, 311	3, 873, 062	61, 648	5, 892, 169
Louisiana.....	204, 428	15, 509, 816	124, 274	9, 668, 225
Wrapping papers.....	130, 426	11, 006, 139	62, 716	5, 825, 100
Boards.....	63, 976	3, 873, 210	50, 987	2, 975, 843
Other.....	10, 026	626, 467	10, 571	867, 282
Maine.....	953, 907	84, 405, 747	867, 705	83, 092, 923
Newsprint.....	507, 553	32, 896, 556	469, 897	32, 858, 703
Wrapping papers.....	184, 112	17, 987, 464	151, 837	16, 120, 994
Other.....	262, 242	39, 521, 727	246, 971	34, 113, 226
Maryland.....	108, 519	10, 356, 322	112, 460	12, 252, 925

TABLE 4.—PAPER INDUSTRY—PRINCIPAL PRODUCTS, BY QUANTITY AND VALUE,
BY STATES: 1927 AND 1925—Continued

[See note at head of this table]

STATE	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
Massachusetts.....	539,513	\$88,097,442	510,903	\$89,055,964
Boards.....	173,910	13,298,433	143,544	12,588,732
Book papers.....	147,654	21,138,752	147,935	22,108,367
Writing papers (fine).....	99,125	34,889,361	90,878	33,357,688
Wrapping papers.....	64,002	9,973,490	55,536	9,400,530
Tissue papers.....	12,519	3,187,044	13,028	3,503,315
Other.....	42,303	5,610,362	59,982	8,102,332
Michigan.....	1,004,391	80,783,111	847,475	77,210,534
Boards.....	575,303	31,655,765	442,586	24,103,060
Book papers.....	179,771	20,107,843	181,799	25,205,739
Wrapping papers.....	113,149	11,910,481	107,047	13,228,169
Other.....	136,168	17,109,022	115,143	14,673,546
Minnesota.....	281,314	19,704,112	224,453	17,096,646
Newsprint.....	150,292	9,845,581	122,445	8,575,819
Other.....	131,022	9,858,531	102,008	8,520,827
New Hampshire.....	207,421	23,531,292	206,288	23,632,167
Wrapping papers.....	96,884	11,134,155	105,453	12,416,521
Other.....	110,537	12,397,137	100,835	11,215,646
New Jersey.....	488,947	35,218,566	406,409	33,080,459
Boards.....	361,347	18,389,419	289,605	15,635,710
Building papers.....	75,229	4,599,679	49,230	3,915,549
Other.....	52,371	12,229,468	67,574	13,529,200
New York.....	1,457,711	122,246,476	1,503,022	131,590,428
Boards.....	417,360	25,672,471	365,547	23,447,438
Newsprint.....	366,473	24,015,004	483,029	33,745,684
Wrapping papers.....	176,887	18,050,491	180,718	17,212,778
Book papers.....	170,870	19,458,592	181,841	21,124,459
Tissue papers.....	88,892	12,133,513	84,631	12,631,943
Hanging papers.....	66,422	5,415,301	59,903	5,344,688
Building papers.....	62,707	4,088,583	77,802	6,841,477
Other.....	108,100	13,362,521	69,551	11,241,961
Ohio.....	812,212	69,202,689	776,600	70,798,819
Boards.....	436,212	22,333,174	421,887	23,411,876
Book papers.....	185,992	23,369,236	144,348	20,575,991
Building papers.....	78,596	5,513,431	89,327	6,734,678
Writing papers.....	51,108	8,713,159	61,586	10,720,235
Wrapping papers.....	39,162	5,593,578	41,512	5,752,509
Other.....	21,142	3,680,111	17,940	3,603,530
Oregon.....	187,663	15,050,427	146,215	9,756,189
Pennsylvania.....	716,344	68,612,012	678,401	75,705,769
Boards.....	230,420	11,269,197	199,322	10,033,066
Book papers.....	192,119	24,482,194	178,043	24,679,039
Building papers.....	106,079	6,393,314	105,579	7,738,396
Wrapping papers.....	63,368	7,470,544	69,297	8,368,060
Writing papers.....	60,193	10,578,113	72,064	14,866,425
Tissue papers.....	46,071	5,181,515	32,947	6,066,440
Other.....	18,094	3,237,135	21,149	3,954,343
Tennessee.....	32,526	2,265,719	31,399	2,168,157
Mont.	87,251	8,366,774	84,325	7,574,422
Wrapping papers.....	35,100	3,942,211	16,885	1,759,123
Other.....	52,151	4,424,563	67,440	5,815,299
Virginia.....	192,864	19,100,245	143,039	14,543,770
Wrapping papers.....	79,553	7,826,073	39,724	3,808,116
Boards.....	56,512	3,849,917	43,334	2,640,986
Other.....	56,799	7,484,255	59,981	8,094,668

TABLE 4.—PAPER INDUSTRY—PRINCIPAL PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1927 AND 1925—Continued

[See note at head of this table, p. 554]

STATE	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
Washington.....	233, 200	\$18, 919, 093	179, 060	\$13, 140, 528
Newsprint.....	112, 709	7, 153, 510	96, 216	5, 288, 971
Wrapping papers.....	51, 713	4, 714, 565	28, 856	2, 463, 132
Other.....	68, 778	7, 051, 018	53, 988	5, 388, 425
West Virginia.....	47, 769	4, 212, 122	43, 709	5, 379, 048
Wrapping papers.....	21, 352	2, 340, 498	18, 994	2, 304, 840
Other.....	26, 417	1, 871, 624	29, 715	3, 074, 208
Wisconsin.....	891, 939	87, 495, 394	832, 954	85, 555, 997
Wrapping papers.....	268, 779	25, 800, 105	224, 346	22, 083, 554
Newsprint.....	148, 116	9, 758, 744	151, 131	10, 520, 029
Boards.....	142, 768	8, 561, 357	134, 762	7, 846, 828
Other.....	332, 276	43, 375, 188	322, 715	45, 105, 586
Other States ¹	258, 293	16, 911, 442	246, 985	19, 003, 950

¹ Alabama, Colorado, District of Columbia, Georgia, Iowa, Kansas, Mississippi, Missouri, North Carolina, Rhode Island, South Carolina, and Texas.

TABLE 5.—PAPER AND PAPER BOARDS—PRODUCTION, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1927 AND 1925

CLASS	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
Paper and paper boards, total.....	110, 002, 070	\$872, 206, 847	9, 182, 204	\$862, 588, 916
Standard newsprint, in rolls and sheets.....	1, 516, 929	98, 782, 477	1, 563, 318	106, 083, 161
Hanging papers.....	112, 658	9, 034, 599	104, 554	9, 506, 383
Poster, novel, news-tablet, lining, catalog, etc.....	183, 338	15, 573, 062	83, 959	7, 096, 374
Book paper, total.....	1, 328, 782	160, 868, 747	1, 343, 310	177, 291, 847
Book papers.....	1, 098, 673	132, 905, 596	1, 147, 273	143, 554, 893
Offset.....	20, 184	3, 184, 596	(4)	(4)
Body stock for coated paper.....	170, 648	19, 176, 179	(9)	(9)
Other book paper.....	39, 277	5, 602, 376	196, 037	33, 736, 954
Cover paper.....	26, 333	5, 937, 919	24, 285	5, 806, 029
Writing paper (fine), total.....	508, 808	105, 148, 140	473, 804	105, 474, 234
100 per cent rag.....	15, 576	10, 462, 226	17, 513	10, 140, 496
Less than 100 per cent to 50 per cent rag.....	40, 634	16, 663, 230	42, 667	17, 685, 788
Less than 50 per cent rag.....	62, 664	16, 426, 916	66, 993	19, 092, 784
Sulphite bond.....	255, 276	40, 939, 948	346, 631	58, 555, 196
Other chemical wood-pulp writing paper.....	134, 658	20, 655, 820		
Wrapping paper, total.....	1, 525, 305	162, 579, 549	1, 292, 049	143, 587, 475
For bags:				
Sulphite.....	56, 964	5, 597, 853	123, 705	14, 617, 053
Sulphate.....	141, 695	14, 545, 455		
Unbleached sulphite wrapping.....	206, 973	20, 010, 092	93, 051	8, 333, 534
Bleached sulphite wrapping.....	26, 787	3, 446, 275	34, 407	5, 082, 393
Bogus and screenings.....	51, 646	3, 153, 613	77, 484	5, 706, 759
Greaseproof.....	23, 073	2, 621, 381	47, 642	9, 198, 620
Glassine.....	38, 644	9, 005, 642		
Heavy (mill wrappers, etc.).....	35, 352	2, 027, 737	58, 725	3, 930, 384

See footnotes at end of table.

TABLE 5.—PAPER AND PAPER BOARDS—PRODUCTION, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1927 AND 1925—Continued

CLASS	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
Wrapping paper—Continued.				
Kraft:				
Northern and Pacific Coast.....	394,913	\$43,454,493	479,975	\$51,113,624
Southern.....	242,382	21,792,638		
Rope, jute, etc.....	43,761	9,228,513	¹⁰ 84,279	¹⁰ 13,143,778
Ground wood and chemical manila.....	45,974	4,180,255	¹¹ 38,583	¹¹ 3,308,741
Tag board, light manila board, and pattern.....	41,280	5,298,836	21,241	3,004,336
Other wrapping paper ¹²	175,861	18,216,966	232,957	26,148,253
Boards, total.....	3,773,608	211,263,855	3,286,580	192,941,535
Container boards:				
Liners.....	911,508	52,842,058	¹³ 487,475	¹³ 28,081,633
Chip (plain and test).....	847,646	34,795,136	¹⁴ 951,570	¹⁴ 44,488,965
Straw (for corrugated-container use).....	340,996	16,868,917	¹⁵ 338,273	¹⁵ 16,254,317
Folding box boards (bending):				
Manila lined (all lined boards).....	405,673	24,037,734	(⁴)	(⁴)
Patent coated.....	185,347	12,805,444	(⁴)	(⁴)
Other folding box boards (including shell and unlined boards).....	205,196	10,335,289	(⁴)	(⁴)
Set-up box boards (nonbending):				
Chip and straw.....	168,911	7,234,760	(⁴)	(⁴)
News board.....	179,041	8,045,854	253,460	12,009,817
Other (including tube, egg case filler, pasted news, and pasted chip boards).....	96,276	4,441,248	(⁴)	(⁴)
Binders' board.....	51,610	4,084,667	38,804	2,948,056
Cardboard.....	46,244	5,311,185	72,280	7,172,930
Leather board.....	24,195	2,498,496	14,269	1,717,754
Pressboard.....	6,938	1,452,683	6,991	1,237,416
Other boards ¹⁶	301,027	26,510,384	1,123,458	79,030,647
Tissue paper, total.....	316,070	46,616,919	281,243	45,734,920
High grade.....	58,590	13,262,707	49,818	10,934,837
Manila and No. 2 white.....	40,929	5,817,197	37,359	4,671,816
Napkin.....	13,675	2,419,082	11,979	2,240,954
Toilet.....	119,777	14,268,263	108,847	17,129,702
Towel.....	40,310	4,140,829	28,741	3,815,549
Waxing.....	42,789	6,708,841	44,499	6,942,062
Absorbent paper, total.....	63,766	13,331,497	51,126	9,999,928
Blotting.....	13,090	2,700,322	12,948	2,585,368
Matrix.....	2,843	681,584	2,158	464,921
For vulcanized fiber.....	16,763	3,156,082	17,148	3,402,589
Other absorbent paper.....	¹⁷ 31,070	¹⁷ 6,793,509	¹⁸ 18,877	¹⁸ 3,547,050
Building papers, total.....	625,589	40,062,024	582,400	45,691,878
Sheathing papers.....	61,326	2,607,607	¹⁹ 101,394	¹⁹ 7,256,529
Felts.....	503,774	32,790,921	²⁰ 453,837	²⁰ 36,774,260
Asbestos filled.....	²¹ 60,489	²¹ 4,663,496	27,169	1,661,089
Other paper.....	20,884	3,003,059	95,576	13,375,152

¹ Includes data for 792,388 tons of paper and paper boards, valued at \$64,236,990, used in the manufacture of converted paper products in the plants producing it.

² Reported as "Poster, novel, tablet, lining, etc."

³ Reported as "Machine-finished" and "Sized and supercalendered."

⁴ Not reported separately.

⁵ Not reported separately. (See footnote 7.)

⁶ Includes data for "Lithograph" paper.

⁷ Includes data for "Plate, lithograph, map, woodcut, etc." and "Coated" paper. The value of "Coated" paper, which is included in the item "Products not normally belonging to the industry," Table 3, was reported as \$31,970,357 for 1925 and as \$30,972,502 for 1927.

⁸ Reported as "Fiber."

⁹ Reported as "Bleached fiber."

¹⁰ Reported as "Manillas (rope, jute, etc.)."

¹¹ Reported as "Wood manila."

¹² Includes "Straw wrapping."

¹³ Reported as "Test liner board."

¹⁴ Reported as "Chip board."

¹⁵ Reported as "Strawboard."

¹⁶ The 1925 figures for "Other boards" are not comparable with those for 1927 because of the inclusion of data for certain boards which were reported separately for 1927 but not for 1925.

¹⁷ "Filter paper," paper "For celluloid," "For parchmentizing," etc.

¹⁸ "Filter" and "For parchmentizing."

¹⁹ Reported as "Building and sheathing."

²⁰ Reported as "Felts and roofing."

²¹ Includes data for paper reported as "Asbestos paper" and "Asbestos-filled paper."

TABLE 6.—PULP—PRODUCTION, BY PROCESS, FOR CONSUMPTION AND FOR SALE, BY QUANTITY AND VALUE, FOR THE UNITED STATES: 1927 AND 1925

[See report on pulpwood consumption and wood-pulp production, Tables 7 to 10, inclusive]

KIND	1927		1925	
	Quantity (tons, 2,000 pounds)	Value (f. o. b. mill)	Quantity (tons, 2,000 pounds)	Value (f. o. b. mill)
Pulp (wood and other fiber) aggregate.....	4,369,591	\$214,176,710	4,008,935	(1)
For consumption ²	3,783,249	172,791,689	3,435,870	(1)
For sale.....	586,342	41,385,021	573,065	\$40,365,370
Wood pulp, total.....	4,313,403	207,332,666	3,962,217	(1)
For consumption ²	³ 3,740,849	³ 168,554,754	3,414,667	(1)
For sale.....	³ 560,571	³ 38,271,761	547,550	36,431,926
Mechanical, steamed, total.....	175,088	6,649,705	71,188	(1)
For consumption ²	169,535	6,475,582	67,499	(1)
For sale.....	5,553	174,123	3,689	129,828
Mechanical, not steamed, total.....	1,435,321	39,309,498	1,540,831	(1)
For consumption ²	1,405,984	38,350,215	1,486,603	(1)
For sale.....	29,337	959,283	54,228	1,808,677
Soda fiber, total.....	487,478	32,842,265	472,647	(1)
For consumption ²	368,987	24,912,839	332,360	(1)
For sale.....	118,491	7,929,426	140,287	10,078,549
Sulphite fiber, bleached, total.....	680,288	53,847,246	612,576	(1)
For consumption ²	444,518	33,270,157	410,795	(1)
For sale.....	235,770	20,577,089	201,781	16,914,901
Sulphite fiber, unbleached, total.....	872,411	44,779,425	790,510	(1)
For consumption ²	780,081	39,840,840	727,207	(1)
For sale.....	92,330	4,938,585	63,303	3,286,410
Sulphate fiber, total.....	603,253	28,691,055	409,768	(1)
For consumption ²	534,824	25,210,657	341,303	(1)
For sale.....	68,429	3,480,398	68,465	3,973,020
Semichemical, total.....	11,983	506,151	(4)	(5)
For consumption ²	(4)	(4)	(4)	(5)
For sale.....	(4)	(4)	(4)	(5)
Screenings, mechanical, total.....	8,229	95,907	17,670	(1)
For consumption ²	7,965	89,980	17,670	(1)
For sale.....	264	5,927	-----	-----
Screenings, chemical, total.....	39,352	611,414	47,027	(1)
For consumption ²	28,955	404,484	31,230	(1)
For sale.....	10,397	206,930	15,797	240,541
Other pulp, total ⁶	56,188	6,844,044	46,718	(1)
For consumption ²	(4)	(4)	(4)	(5)
For sale.....	(4)	(4)	(4)	(5)

¹ No comparable data. Value of pulp produced and used in the same plant not reported.² Wood pulp made and consumed in the same plant or transferred to and consumed in other plants operated by the same company.³ Not including data for semichemical pulp. (See footnote 4.)⁴ Can not be shown without disclosing the production of individual establishments.⁵ Not reported.⁶ Deinked pulp, cottonseed-hull-shavings and cotton-linter pulp, and rag pulp.

TABLE 7.—EQUIPMENT, BY KIND, NUMBER, AND CAPACITY: 1921 TO 1927
[Capacity given in tons of 2,000 pounds]

KIND	1927	1925	1923	1921
Paper machines:				
Total number.....	1,693	1,687	1,828	1,528
Capacity per annum, tons.....	12,536,090	11,254,458	9,725,349	8,614,163
Fourdrinier—				
Number.....	949	961	955	891
Capacity per 24 hours, tons.....	20,984	20,295	17,488	16,072
Cylinder—				
Number.....	744	726	873	637
Capacity per 24 hours, tons.....	19,455	17,200	14,899	12,995
Pulp equipment:				
Grinders—				
Number.....	1,217	1,085	1,378	1,371
Capacity per 24 hours, tons.....	7,694	7,079	7,988	7,514
Digesters, total number.....	713	672	702	666
Sulphite fiber.....	377	369	401	395
Soda fiber.....	214	189	200	201
Sulphate fiber.....	122	114	101	70
Capacity per annum, total, tons.....	5,602,980	4,881,813	4,957,975	4,627,040
Ground.....	2,433,110	2,108,559	2,244,651	2,128,842
Sulphite.....	1,845,510	1,718,955	1,778,429	1,732,464
Soda.....	627,870	558,652	519,267	502,913
Sulphate.....	696,490	497,647	415,628	262,821

TABLE 8.—PAPER MACHINES, BY TYPE, NUMBER, AND CAPACITY, BY KIND OF PAPER MADE: 1927

KIND	Total capacity per year (310 days) (tons, 2,000 pounds)	FOURDRINIER		CYLINDER	
		Number	Capacity per 24 hours (tons, 2,000 pounds)	Number	Capacity per 24 hours (tons, 2,000 pounds)
Total.....	12,536,090	949	20,984	744	19,455
Newsprint.....	1,968,190	156	6,349	—	—
Book paper.....	1,634,320	236	5,249	2	23
Cover paper.....	28,520	9	79	2	13
Writing paper.....	565,750	153	1,819	1	6
Wrapping paper.....	1,851,010	202	5,015	77	956
Boards.....	4,911,330	15	363	489	15,480
Tissue paper.....	391,530	101	819	98	444
Absorbent paper.....	103,540	35	326	7	8
Building paper.....	888,460	8	358	66	2,508
Other paper.....	193,440	34	607	2	17

TABLE 9.—GENERAL STATISTICS FOR PAPER, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufac- ture ¹
		Total	Pro- pri- etors and firm man- agers	Wage earners (average for the year)	Salaried officers and em- ployees	Horse- power ¹		Materials and supplies	Fuel and power		
United States.....	710	109,141	38	98,506	10,537	2,642,806	\$130,474,789	\$512,935,626	\$59,849,912	\$919,891,465	\$347,105,927
California.....	11	1,610	---	1,439	171	26,830	2,084,703	9,714,932	1,064,543	13,938,098	6,188,623
Connecticut.....	32	2,144	---	1,898	246	32,647	2,753,288	7,946,151	1,282,009	16,153,988	6,925,828
Delaware.....	7	642	---	602	40	9,963	762,275	2,640,352	379,167	4,485,618	1,466,099
Illinois.....	30	3,760	---	3,452	308	58,030	4,509,852	16,804,308	2,499,926	32,979,761	13,675,527
Indiana.....	26	2,662	---	2,400	202	40,987	2,823,839	11,551,695	1,755,508	19,940,649	6,633,446
Louisiana.....	9	1,354	---	1,245	109	55,774	1,478,399	8,624,208	966,908	15,518,937	5,927,821
Maine.....	25	9,039	2	8,322	695	35,801	11,121,076	48,483,710	4,661,159	88,564,957	35,450,088
Maryland.....	10	1,461	---	1,360	101	18,217	1,631,446	7,456,158	610,397	11,825,129	3,268,574
Massachusetts.....	80	13,656	3	12,227	1,524	167,837	15,007,092	44,441,589	5,941,414	91,095,083	40,712,080
Michigan.....	42	12,470	---	11,352	1,088	193,051	16,323,895	53,321,418	5,204,100	95,798,872	37,273,354
Minnesota.....	9	1,968	---	1,772	106	83,077	2,314,308	12,890,018	1,522,454	20,922,532	6,510,090
New Hampshire.....	24	2,792	---	2,487	275	109,385	3,204,031	15,871,449	1,795,781	24,616,237	6,946,007
New Jersey.....	37	4,194	7	3,773	414	64,865	5,333,022	17,990,564	3,110,778	35,769,883	14,668,541
New York.....	126	14,071	8	12,985	1,378	472,999	17,453,829	74,280,993	8,508,618	124,189,463	41,399,852
Ohio.....	53	9,481	---	8,714	767	116,755	11,509,358	44,886,650	4,094,883	74,593,069	25,611,536
Oregon.....	6	1,272	---	1,139	133	69,995	1,541,266	6,192,176	861,986	15,050,427	7,996,265
Pennsylvania.....	56	8,239	7	7,251	961	153,585	10,452,661	38,786,978	4,466,409	72,676,705	29,423,318
Tennessee.....	3	283	---	9,629	40	9,629	1,372,604	1,372,604	151,290	2,265,719	741,825
Vermont.....	14	1,100	4	982	114	33,067	1,196,266	5,185,123	582,311	8,712,148	2,944,714
Virginia.....	9	1,946	---	1,756	190	55,986	1,926,860	12,644,138	1,126,517	19,481,040	5,710,385
Washington.....	12	2,256	---	2,049	207	102,076	2,989,403	8,443,244	1,869,782	19,746,323	9,433,297
West Virginia.....	6	592	---	578	62	15,788	683,887	2,304,442	4,588,760	2,039,356	2,039,356
Wisconsin.....	51	10,365	---	9,414	891	294,712	11,472,092	54,701,099	5,630,547	90,173,655	29,842,009
Other States ²	22	1,934	5	1,734	195	70,720	2,019,314	9,401,627	1,515,463	17,274,412	6,397,322

¹ Combined total for paper and pulp.² Value of products less cost of materials, supplies, fuel, and power. (See sec. 18 and 21, pp. 9 and 10.)³ Alabama, 1 establishment; Colorado, 1; District of Columbia, 1; Georgia, 2; Iowa, 3; Kansas, 3; Mississippi, 1; Missouri, 1; North Carolina, 4; Rhode Island, 1; South Carolina, 2; and Texas, 2.

TABLE 10.—GENERAL STATISTICS FOR PULP (WOOD AND OTHER FIBER), BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data for individual establishments. Four of the "Other States," however, reported larger values of products than some of the States shown separately. See general statistics for paper, for combined figures for horsepower]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manu- facture ¹
		Total	Pro- pri- etors and firm mem- bers	Salaried officers and em- ployees	Wage earners (average for the year) ²			Materials and supplies	Fuel and power		
United States.....	219	26,896	7	2,095	24,794	\$5,963,432	\$31,527,358	\$134,231,864	\$17,093,561	\$218,198,201	\$66,872,776
Louisiana.....	7	1,047	1	83	963	234,654	1,238,373	3,572,325	401,849	7,343,812	3,374,638
Maine.....	25	4,064	---	812	3,752	943,707	5,018,401	26,982,659	3,150,806	40,280,291	10,146,826
Michigan.....	12	1,338	---	95	1,243	219,775	1,535,410	6,171,703	718,252	9,582,235	2,692,280
Minnesota.....	7	1,807	---	67	1,740	168,786	1,001,117	4,508,675	442,209	7,546,912	2,595,028
New Hampshire.....	7	2,750	---	216	2,534	481,411	3,064,369	11,386,753	1,486,573	18,545,615	5,672,289
New York.....	61	3,400	2	237	3,161	737,179	4,127,308	21,894,703	2,623,956	32,957,012	8,438,353
Oregon.....	6	812	---	144	668	190,531	952,262	2,970,710	371,271	4,951,914	1,609,933
Pennsylvania.....	12	1,827	---	187	1,640	657,283	2,356,553	9,071,815	1,112,909	15,753,242	5,563,618
Tennessee ¹	4	404	---	40	364	122,898	300,103	1,768,690	194,040	3,047,402	1,083,672
Vermont.....	4	133	---	7	126	20,625	161,527	616,942	15,132	1,039,285	407,211
Virginia.....	8	1,551	---	125	1,426	447,224	1,252,264	6,670,392	874,700	11,244,639	3,669,547
Washington.....	13	1,324	---	87	1,237	228,910	1,670,615	4,868,722	1,028,275	9,201,570	3,304,573
Wisconsin.....	33	3,037	3	262	2,722	768,424	4,946,262	21,733,060	2,640,328	34,876,945	10,494,527
Other States ²	19	3,452	1	233	3,213	742,025	3,842,704	13,012,685	2,024,261	21,827,327	7,785,381

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² California, 1 establishment; Delaware, 1; District of Columbia, 1; Maryland, 2; Massachusetts, 3; Mississippi, 1; North Carolina, 2; Ohio, 2; South Carolina, 1; Texas, 1; and West Virginia, 4.

TABLE 11.—IMPORTS AND EXPORTS OF PAPER AND PAPER BOARDS, BY KIND, QUANTITY, AND VALUE: 1927 AND 1925

[Not including converted paper products]

KIND	1927		1925	
	Quantity (tons, 2,000 pounds)	Value	Quantity (tons, 2,000 pounds)	Value
IMPORTS				
Paper and paper boards, total value.....	2,056,822	\$136,021,160	1,523,155	\$109,063,930
Printing:				
Standard newsprint.....	1,987,066	131,489,034	1,448,425	103,717,055
Other.....	5,182	506,458	8,231	803,592
Hanging.....	151	21,895	1,726	130,322
Wrapping:				
Grease-proof and imitation parchment.....	517	164,300	747	180,984
Vegetable parchment.....	235	89,275	449	110,771
Kraft.....	6,085	518,877	7,066	587,008
Other.....	6,421	317,151	2,631	258,022
Boards:				
Pulp.....	30,064	1,423,125	36,349	1,913,108
Leather.....	241	15,802	742	53,993
Other.....	18,428	796,577	14,273	650,561
Absorbent.....	478	297,816	384	233,474
Building and sheathing, felts and roofing.....	1,046	110,773	939	88,375
Other paper.....	908	270,077	1,193	336,665
EXPORTS				
Paper and paper boards, total value.....	114,690	15,516,409	94,473	13,089,676
Standard newsprint.....	12,329	1,191,033	22,738	2,025,153
Book.....	8,022	1,370,932	8,674	1,934,630
Cover.....	826	283,083	607	230,779
Writing (other than papeteries).....	6,614	1,918,051	2,011	708,820
Wrapping:				
Grease-proof and waterproof.....	1,307	380,647	1,058	281,780
Other.....	16,156	2,256,059	14,368	2,173,029
Boards:				
Box-board.....	21,817	1,351,016	11,241	796,089
Bristol and bristol board.....	922	180,136	566	129,557
Paper board and strawboard.....	19,277	2,072,702	16,188	1,581,421
Wall board.....	12,841	1,506,412	13,943	474,935
Tissue and crépe.....	2,401	1,091,531	1,871	958,483
Toilet.....	2,764	668,871	2,522	604,208
Paper towels and napkins.....	1,180	331,700	809	244,170
Blotting.....	1,833	411,410	1,460	355,782
Building and sheathing.....	6,401	502,826	6,417	590,840

¹ Approximate.

PULPWOOD CONSUMPTION AND WOOD-PULP PRODUCTION, 1927

[A preliminary report for this industry was issued under date of December 13, 1928]

Comparisons with prior census years.—This report is one of a series of annual reports on pulpwood consumption and wood-pulp production published by the Bureau of the Census in cooperation with the Forest Service. The statistics are presented in the current report, so far as possible, in the same form as for preceding years in order to preserve their comparability.

State statistics.—In Tables 5, 6, 9, and 10 statistics are given for each State for which separate figures can be shown without disclosing operations of individual establishments, which is prohibited by the census law. Both California and Oregon, for which the figures are combined, and certain of the "Other States," reported the consumption of larger amounts of pulpwood or the production of larger amounts of wood pulp than some of the States for which separate statistics are presented.

PULPWOOD CONSUMPTION

Decreased consumption.—Consumption of pulpwood was continued on the same high level as for 1926, although the aggregate was slightly less than the consumption for that year. The decreases in the leading eastern States were almost offset by the increases in the west-coast States and in Michigan and Louisiana.

Condition in which wood is purchased.—The wood used is purchased either rough, peeled, or rossed. Wood purchased rough (with the bark on) contributed about 47.6 per cent of the total quantity consumed in 1927, peeled wood, 49.6 per cent, and rossed wood, 2.8 per cent. The peeling process is performed by hand, and no part of the wood fiber is wasted. The proportion of wood fiber lost in the rossing of bolts of small diameters is, however, considerable.

The following statement shows, for 1927, 1926, and 1925, the percentage of the total consumption of pulpwood reduced by each process:

YEAR	Total pulpwood consumed (cords)	PER CENT OF TOTAL REDUCED BY SPECIFIED PROCESS				
		Sulphite	Mechan- ical	Soda	Sulphate	Semi- chemical
1927.....	6, 750, 935	45.8	23.2	13.4	17.4	0.2
1926.....	6, 766, 007	46.5	25.5	13.3	14.7	(¹)
1925.....	6, 093, 821	46.7	25.8	14.2	13.3	(¹)

¹ No. reported

WOOD-PULP PRODUCTION

Methods of manufacture.—The schedule for 1927 for the first time called for data pertaining to the production of semichemical pulp, and therefore comparable figures for previous years are not available. The statistics show a considerable decrease in the per cent which mechanical pulp formed of the total production, and a continued increase in the production of sulphate pulp. The following statement shows, for 1927, 1926, and 1925, the percentage of the total quantity of wood pulp produced by each process.

YEAR	Total wood pulp produced (tons, 2,000 pounds)	PER CENT OF TOTAL PRODUCED BY SPECIFIED PROCESS					
		Mechanical	Sulphite	Soda	Sulphate	Semi-chemical	Screenings
1927.....	4,313,403	37.3	36.0	11.3	14.0	0.3	1.1
1926.....	4,394,766	40.1	35.5	11.3	11.8	(¹)	1.3
1925.....	3,962,217	40.7	35.4	11.9	10.3	(¹)	1.6

¹ Not reported.

Value of wood pulp.—Because of the differences in methods of manufacture and in quality of pulp produced, and because of the concentration of certain processes within some States, the average values per ton by States are not comparable.

The average values per ton, by process and condition, for 1927, 1926, and 1925, were as follows:

YEAR	MECHANICAL		SULPHITE		SODA	SULPHATE	Semi-chemical
	Not steamed	Steamed	Unbleached	Bleached	Unbleached and bleached	Unbleached and bleached	
1927.....	\$27.36	\$37.88	\$51.32	\$79.15	\$67.37	\$47.57	\$42.24
1926.....	28.33	30.51	51.56	80.68	70.04	48.05	(²)
1925 ¹	30.08	32.36	52.56	79.87	72.30	51.04	(²)

¹ Exclusive of screenings.

² Not reported.

IMPORTS AND EXPORTS

The figures shown in Tables 11 and 12 were taken from the Summary of Imports and Exports of the United States, published by the Bureau of Foreign and Domestic Commerce, Department of Commerce, and are included in this report for ready reference. All quantities of pulp have been reduced to tons of 2,000 pounds for convenience in making comparisons.

The figures for imports of pulpwood are not comparable with those for imported pulpwood used, compiled by the Bureau of the Census, for the reason that the statistics on pulpwood consumption pertain solely to the quantities used during the calendar year, which in the cases of many mills included some stock imported in previous years and excluded some imported but not consumed during the year to which the statistics relate.

TABLE 1.—PULPWOOD CONSUMED, BY QUANTITY AND COST, FOR THE UNITED STATES, FOR SPECIFIED YEARS: 1899 TO 1927

YEAR	Quantity (cords)	COST (F. O. B. MILL)		YEAR	Quantity (cords)	COST (F. O. B. MILL)	
		Total	Average per cord			Total	Average per cord
1927.....	6,750,935	\$95,452,365	\$14.14	1916.....	5,228,553	1\$45,785,682	\$8.76
1926.....	6,766,007	101,229,402	14.96	1914.....	4,470,763	39,408,453	8.81
1925.....	6,063,821	94,339,540	15.48	1911.....	4,328,052	-----	-----
1924.....	5,768,082	92,671,688	16.07	1910.....	4,094,306	-----	-----
1923.....	5,872,870	95,306,283	16.23	1909.....	4,001,007	34,477,540	8.62
1922.....	5,548,842	89,895,191	16.20	1908.....	3,346,953	28,047,473	8.38
1921.....	4,557,179	91,589,103	20.10	1907.....	3,962,060	32,360,276	8.17
1920.....	6,114,072	116,495,720	19.03	1906.....	3,661,176	26,411,887	7.21
1919.....	5,477,832	87,336,033	15.95	1905.....	3,192,123	17,735,665	5.56
1918.....	5,250,794	73,167,118	13.93	1899.....	1,936,310	9,837,516	4.95
1917.....	5,480,075	60,815,057	11.10				

¹ Not including slabs and other mill waste in Louisiana, Massachusetts, North Carolina, and Virginia.

TABLE 2.—PULPWOOD CONSUMPTION—KINDS OF WOOD, BY QUANTITY AND PER CENT DISTRIBUTION, FOR THE UNITED STATES: 1927, 1926, AND 1925

KIND OF WOOD	QUANTITY (CORDS)			PER CENT DISTRIBUTION		
	1927	1926	1925	1927	1926	1925
Total.....	6,750,935	6,766,007	6,093,821	100.0	100.0	100.0
Spruce:						
Domestic.....	2,077,893	2,415,870	2,253,219	30.8	35.7	37.0
Imported.....	948,216	1,013,155	818,143	14.0	15.0	13.4
Hemlock:						
Domestic.....	1,138,783	1,064,661	1,013,109	16.9	15.7	16.6
Imported.....	5,048	10,702	21,705	.1	.2	.4
Yellow pine, Southern.....	755,175	684,816	531,157	11.2	10.1	8.7
Poplar:						
Domestic.....	220,268	212,178	206,982	3.3	3.1	3.4
Imported.....	186,695	210,133	195,938	2.8	3.1	3.2
Balsam fir:						
Domestic.....	305,143	254,614	214,600	4.5	3.8	3.5
Imported.....	84,087	42,500	52,590	1.2	.6	.9
Jack pine.....	168,734	137,494	102,040	2.5	2.0	1.7
Yellow poplar.....	131,168	134,747	145,871	1.9	2.0	2.4
Beech, birch, and maple.....	78,311	(¹)	(¹)	1.2	(¹)	(¹)
White fir.....	97,148	76,421	84,305	1.4	1.1	1.4
Gum.....	64,314	49,801	43,386	.9	.7	.7
Tamarack or larch.....	61,104	94,695	76,585	.9	1.4	1.2
Other wood ²	142,764	183,553	177,975	2.1	2.7	2.9
Slabs and other mill waste.....	286,084	180,667	156,216	4.2	2.7	2.6

¹ Included in figure for "Other wood."

² Basswood, chestnut, cottonwood, Douglas fir, western yellow pine, white pine, and willow for each of the three years shown; in addition, cedar for 1927 and cedar and buckeye for 1926.

TABLE 3.—PULPWOOD CONSUMPTION—QUANTITY, BY KIND OF WOOD AND PROCESS OF MANUFACTURE, FOR THE UNITED STATES: 1927

KIND OF WOOD	Total (cords)	PROCESS OF MANUFACTURE (CORDS)				
		Mechanical	Sulphite	Soda	Sulphate	Semi-chemical
Total.....	6,750,935	1,566,008	3,094,622	901,329	1,176,688	12,288
Spruce:						
Domestic.....	2,077,893	902,741	1,109,608		65,544	
Imported.....	948,216	338,763	570,451	34,002	5,000	
Hemlock:						
Domestic.....	1,138,783	101,142	883,874		153,767	
Imported.....	5,048	5,048				
Yellow pine, Southern	755,175	8,784	15,682	84,239	646,470	
Poplar:						
Domestic.....	220,268	17,860	7,990	180,715	13,703	
Imported.....	186,695	350		180,326	6,019	
Balsam fir:						
Domestic.....	305,143	109,153	125,451		70,539	
Imported.....	84,087	24,363	59,724			
Jack pine.....	168,734	11,506	13,041	21,976	122,211	
Yellow poplar.....	131,168	55		131,113		
Beech, birch, and maple.....	78,311	2,417	1,056	74,180	658	
White fir.....	97,148	28,212	65,541		3,395	
Gum.....	64,314			62,189		2,125
Tamarack or larch.....	61,104		4,220	3,819	53,065	
Other wood ¹	142,764	2,949		116,999	12,653	10,163
Slabs and other mill waste.....	286,084	12,665	237,984	11,771	23,664	

¹ Basswood, cedar, chestnut, cottonwood, Douglas fir, Western yellow pine, white pine, and willow.

TABLE 4.—PULPWOOD CONSUMPTION—QUANTITY AND AVERAGE COST PER CORD, BY KIND OF WOOD AND CONDITION IN WHICH PURCHASED, FOR THE UNITED STATES: 1927

KIND OF WOOD	TOTAL		ROUGH		PEELED		ROSSED	
	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)
Total.....	6,750,935	\$14.14	3,214,012	\$11.70	3,347,238	\$16.42	189,685	\$14.18
Spruce:								
Domestic.....	2,077,893	17.11	876,756	15.01	1,182,435	18.58	18,702	23.14
Imported.....	948,216	19.58	256,384	17.61	635,301	20.11	56,531	22.63
Hemlock:								
Domestic.....	1,138,783	10.94	896,870	10.62	226,838	11.90	15,075	11.50
Imported.....	5,048	11.35			5,048	11.35		
Yellow pine, Southern	755,175	8.16	442,653	6.43	312,522	10.62		
Poplar:								
Domestic.....	220,268	14.23	25,942	9.56	194,326	14.85		
Imported.....	186,695	17.29			186,695	17.29		
Balsam fir:								
Domestic.....	305,143	14.11	209,676	12.39	93,135	18.00	2,332	13.18
Imported.....	84,087	18.70	19,881	16.35	51,212	18.77	12,994	22.04
Jack pine.....	168,734	10.58	148,417	10.86	65	22.84	20,252	8.48
Yellow poplar.....	131,168	13.54	15,449	12.18	115,719	13.72		
Beech, birch, and maple.....	78,311	16.93	11,538	20.76	66,773	16.26		
White fir.....	97,148	9.84	66,351	10.37	30,797	8.70		
Gum.....	64,314	13.18	28,692	12.18	35,622	13.99		
Tamarack or larch.....	61,104	11.15	61,104	11.15				
Other wood ¹	142,764	8.88	21,068	7.94	121,696	9.05		
Slabs and other mill waste.....	286,084	6.35	133,231	4.86	89,054	9.56	63,799	4.95

¹ See footnote, Table 3.

TABLE 5.—PULPWOOD CONSUMPTION—QUANTITY, BY KIND OF WOOD, BY STATES: 1927.

[See "State statistics," p. 563]

STATE	Number of establishments	PULPWOOD CONSUMED (CORDS)							
		Total	Spruce		Hemlock		Yellow pine, Southern	Poplar	
			Domes- tic	Im- ported	Domes- tic	Im- ported		Domes- tic	Im- ported
United States.....	219	6,750,935	2,077,893	948,216	1,133,783	5,048	755,175	220,268	186,695
Alaska.....	26	1,273,268	796,776	120,097	43,984	-----	-----	130,887	29,985
Alaska.....	33	1,199,615	254,622	96,996	584,987	-----	-----	12,884	-----
Arkansas.....	61	872,780	276,820	399,236	15,047	410	-----	34,601	79,792
California.....	13	445,664	33,435	147,337	4,638	-----	-----	-----	-----
Pennsylvania.....	12	398,021	14,156	133,359	17,668	-----	43,512	-----	76,209
New Hampshire.....	7	358,376	255,533	75,505	1,420	-----	-----	-----	-----
Michigan.....	12	351,688	92,609	74,561	69,417	-----	-----	300	-----
Illinois.....	7	349,272	-----	-----	-----	-----	332,886	-----	-----
Indiana.....	8	316,032	13,954	35,477	21,372	-----	179,474	-----	-----
Minnesota.....	7	281,156	198,076	-----	-----	-----	-----	21,424	-----
Massachusetts.....	3	49,473	33,500	6,365	-----	-----	-----	5,546	709
Montana.....	4	31,795	16,822	3,579	-----	-----	-----	300	-----
California and Oregon.....	7	267,235	30,801	-----	173,245	-----	-----	-----	-----
United States ¹	19	556,560	60,789	3,041	64,306	-----	199,303	14,326	-----

STATE	PULPWOOD CONSUMED (CORDS)									
	Balsam fir		Jack pine	Yellow poplar	Beech, birch, and maple	White fir	Gum	Tamarack or larch	Other ²	Slabs and other mill waste
	Domes- tic	Im- ported								
United States.....	305,143	84,087	168,734	131,168	78,311	97,148	64,314	61,104	142,764	286,084
Alaska.....	99,630	24,304	-----	-----	17,623	-----	-----	-----	4,785	5,197
Alaska.....	112,079	-----	94,259	-----	-----	-----	-----	41,552	1,500	736
Arkansas.....	7,890	32,312	65	4,815	17,671	-----	-----	-----	-----	4,121
California.....	-----	-----	-----	4,815	17,671	40,070	-----	-----	38,192	181,992
Pennsylvania.....	-----	15,212	-----	27,228	28,641	-----	14,540	-----	-----	27,496
New Hampshire.....	15,283	4,535	-----	-----	-----	-----	-----	-----	-----	6,100
Michigan.....	38,206	3,969	38,511	-----	2,417	-----	15,733	-----	-----	15,965
Illinois.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	16,386
Indiana.....	-----	-----	-----	41,287	5,200	-----	3,422	-----	-----	15,846
Minnesota.....	21,363	-----	35,899	-----	575	-----	-----	3,819	-----	-----
Massachusetts.....	1,662	1,691	-----	-----	-----	-----	-----	-----	-----	-----
Montana.....	9,030	2,064	-----	-----	-----	-----	-----	-----	-----	-----
California and Oregon.....	-----	-----	-----	-----	-----	57,078	-----	-----	5,995	116
United States ¹	-----	-----	57,838	6,184	-----	46,352	-----	-----	92,292	12,129

Delaware, 1 establishment; District of Columbia, 1; Maryland, 2; Mississippi, 1; North Carolina, 2; O. 2; South Carolina, 1; Tennessee, 4; Texas, 1; and West Virginia, 4.
See footnote, Table 3.

TABLE 6.—PULPWOOD CONSUMPTION—QUANTITY AND AVERAGE COST PER CORD, BY CONDITION IN WHICH PURCHASED, BY STATES: 1927

[See "State statistics," p. 563]

STATE	TOTAL		ROUGH		PEELED		ROSSED	
	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)	Quantity (cords)	Average cost per cord (f. o. b. mill)
United States.....	6,750,935	\$14.14	3,214,012	\$11.70	3,347,238	\$16.42	189,685	\$14.18
Maine.....	1,273,288	17.16	224,314	15.79	1,001,693	17.26	47,261	21.51
Wisconsin.....	1,199,615	12.65	1,110,584	12.40	60,346	17.57	28,685	11.85
New York.....	872,780	19.34	111,419	10.67	725,954	19.11	35,407	23.10
Washington.....	445,664	8.05	280,161	7.99	107,396	10.27	58,107	4.25
Pennsylvania.....	398,021	18.02	75,170	17.48	322,851	18.14	-----	-----
New Hampshire.....	358,376	19.42	67,410	15.92	287,765	20.26	3,201	16.89
Michigan.....	351,688	13.40	312,573	13.73	38,246	10.59	869	18.85
Louisiana.....	349,272	5.89	339,842	5.82	9,430	8.15	-----	-----
Virginia.....	316,032	11.95	46,390	8.93	269,642	12.46	-----	-----
Minnesota.....	281,156	12.03	259,907	11.60	21,249	17.99	-----	-----
Massachusetts.....	49,473	19.38	-----	-----	48,998	19.37	475	20.00
Vermont.....	31,795	17.29	20,134	16.59	11,018	18.12	643	25.07
California and Oregon.....	267,235	10.34	197,723	10.85	54,475	8.19	15,037	11.50
Other States ¹	556,560	10.08	168,385	8.77	388,175	10.65	-----	-----

¹ Delaware, District of Columbia, Maryland, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, Texas, and West Virginia.

TABLE 7.—WOOD-PULP PRODUCTION—QUANTITY, BY PROCESS, FOR THE UNITED STATES, FOR SPECIFIED YEARS: 1899 TO 1927

[Tons of 2,000 pounds]

Year	Total	Mechanical	Sulphite	Soda	Sulphate	Semi-chemical
1927.....	¹ 4,313,403	1,618,638	1,588,132	487,478	607,172	11,983
1926.....	¹ 4,394,766	1,774,192	1,599,776	496,920	523,878	(²)
1925.....	¹ 3,962,217	1,629,689	1,447,191	472,647	412,690	(²)
1924.....	¹ 3,723,266	1,643,283	1,336,551	440,697	302,735	(²)
1923.....	¹ 3,788,672	1,530,553	1,448,690	445,162	314,267	(²)
1922.....	¹ 3,521,644	1,483,787	1,374,319	419,857	243,681	(²)
1921.....	¹ 2,875,601	¹ 1,207,352	¹ 1,166,926	300,533	140,760	(²)
1920.....	¹ 3,821,704	1,583,914	1,585,834	463,305	188,651	(²)
1919.....	¹ 3,517,952	1,518,829	1,419,829	411,693	120,378	(²)
1918.....	¹ 3,313,861	1,364,504	1,456,633	350,362	142,362	(²)
1917.....	3,509,939	1,535,953	1,451,757	437,430	84,799	(²)
1916.....	3,435,001	1,508,139	1,466,402	387,021	73,439	(²)
1914.....	¹ 2,893,150	1,293,661	1,151,327	347,928	52,641	(²)
1911.....	2,686,134	(²)	(²)	(²)	(²)	(²)
1910.....	2,533,976	(²)	(²)	(²)	(²)	(²)
1909.....	2,495,523	1,179,266	1,017,631	298,626	-----	(²)
1908.....	2,118,947	(²)	(²)	(²)	(²)	(²)
1907.....	2,547,879	(²)	(²)	(²)	(²)	(²)
1904.....	1,921,768	968,976	756,022	196,770	-----	(²)
1899.....	1,179,525	586,374	416,037	177,114	-----	(²)

¹ Includes screenings, as follows: Mechanical, 8,229 tons; sulphite, 35,433 tons; sulphate, 3,919 tons.² Includes screenings, as follows: Mechanical, 9,944 tons; sulphite, 41,601 tons; sulphate, 3,918 tons.³ Not reported.⁴ Includes screenings, as follows: Mechanical, 17,670 tons; sulphite, 44,105 tons; sulphate, 2,922 tons.⁵ Includes some screenings.⁶ Includes screenings, as follows: Mechanical, 12,759 tons; sulphite, 37,463 tons; sulphate, 1,784 tons.⁷ Includes screenings, as follows: Mechanical, 12,220 tons; chemical, not shown by process, 35,003 tons.⁸ Includes screenings, as follows: Mechanical, 11,769 tons; chemical, not shown by process, 35,824 tons.⁹ Not reported separately.

TABLE 8.—WOOD-PULP PRODUCTION—QUANTITY, BY PROCESS AND CONDITION,
FOR THE UNITED STATES: 1927, 1926, AND 1925

[Tons of 2,000 pounds]

PROCESS AND CONDITION	1927	1926	1925
Total.....	4,313,403	4,394,766	3,962,217
Mechanical, total.....	1,610,409	1,764,248	1,612,019
Not steamed.....	1,435,321	1,677,326	1,540,831
Steamed.....	175,088	86,922	71,188
Sulphite, total.....	1,552,699	1,558,175	1,403,086
Unbleached.....	872,411	911,729	790,510
Bleached.....	680,288	646,446	612,576
Sulphate, unbleached and bleached ¹	487,478	496,920	472,647
Sulphate, unbleached and bleached ¹	603,253	519,960	409,768
Semichemical.....	11,983	(²)	(²)
Chemicals, total.....	47,581	55,463	64,697
Mechanical.....	8,229	9,944	17,670
Chemical.....	39,352	45,519	47,027

Not shown separately in order to avoid disclosing the production of individual establishments.
Not reported.

TABLE 9.—WOOD-PULP PRODUCTION, BY QUANTITY AND VALUE, BY STATES:
1927

[See "State statistics," p. 563]

STATE	Quantity (tons, 2,000 pounds)	VALUE	
		Total	Average per ton
United States.....	4,313,403	\$207,332,666	¹ \$48.07
Alaska.....	942,162	39,577,990	42.01
Arizona.....	680,921	34,874,967	50.48
California.....	710,227	32,202,650	45.34
Washington.....	268,349	9,201,570	34.29
Pennsylvania.....	216,587	15,783,242	72.73
New Hampshire.....	200,324	16,719,170	83.46
Michigan.....	193,530	9,582,235	49.51
Louisiana.....	179,878	7,165,352	39.83
Virginia.....	170,630	9,744,639	57.11
Minnesota.....	191,220	7,545,141	39.46
Massachusetts.....	31,822	2,082,891	65.45
Mont.	32,562	1,030,285	31.92
California and Oregon.....	200,869	5,378,258	26.77
Other States ²	284,313	16,465,276	57.91

Averages by process: Mechanical, not steamed, \$27.36; mechanical, steamed, \$37.88; Sulphite, unbleached, \$51.42; bleached, \$79.15; Soda, unbleached and bleached, \$67.37; Sulphate, unbleached and bleached, \$47.37; Semichemical, \$42.24.

See footnote 1, Table 6.

TABLE 10.—PULPWOOD CONSUMPTION AND WOOD-PULP PRODUCTION—NUMBER OF MILLS REPORTING, QUANTITY AND COST OF WOOD CONSUMED, AND QUANTITY OF WOOD PULP PRODUCED, BY STATES: 1927, 1926, AND 1925

STATE	Year	Number of establishments	PULPWOOD CONSUMED			Wood-pulp produced (tons, 2,000 pounds)
			Quantity (cords)	Cost (f. o. b. mill)		
				Total	Average per cord	
United States-----	1927	219	6,750,935	\$95,452,365	\$14.14	4,313,403
	1926	224	6,766,007	101,229,402	14.96	4,394,766
	1925	234	6,093,821	94,339,540	15.48	3,962,217
Maine-----	1927	26	1,273,268	21,850,760	17.16	942,162
	1926	26	1,298,357	22,619,373	17.42	945,790
	1925	29	1,240,340	22,963,306	18.51	917,632
Wisconsin-----	1927	33	1,199,615	15,174,013	12.65	690,921
	1926	41	1,224,443	15,711,665	12.83	712,565
	1925	41	1,071,139	13,478,459	12.58	599,601
New York-----	1927	61	872,780	16,882,733	19.34	710,227
	1926	66	990,701	19,350,874	19.53	822,131
	1925	73	904,283	17,894,869	19.79	770,777
Washington-----	1927	13	445,664	3,588,506	8.05	268,349
	1926	8	305,787	2,775,122	9.08	199,164
	1925	6	241,150	2,626,050	10.89	161,858
Pennsylvania-----	1927	12	398,021	7,171,606	18.02	216,587
	1926	13	425,684	7,171,764	16.85	233,258
	1925	13	423,823	7,125,761	16.81	224,399
New Hampshire-----	1927	7	358,376	6,958,956	19.42	200,324
	1926	8	431,138	8,969,404	20.80	248,600
	1925	9	370,318	7,962,236	21.50	217,489
Michigan-----	1927	12	351,688	4,712,584	13.40	193,539
	1926	12	331,570	5,136,117	15.49	200,604
	1925	12	275,152	4,011,814	14.58	161,063
Louisiana-----	1927	7	349,272	2,056,671	5.89	179,878
	1926	5	253,439	1,674,651	6.48	137,571
	1925	5	170,285	1,004,078	5.90	87,147
Virginia-----	1927	8	316,032	3,775,393	11.95	170,630
	1926	6	317,058	4,032,829	12.72	163,506
	1925	7	288,206	3,792,250	13.16	146,619
Minnesota-----	1927	7	281,156	3,397,201	12.08	191,220
	1926	7	288,390	3,269,903	11.34	190,454
	1925	7	262,768	3,129,650	11.91	171,536
Massachusetts-----	1927	3	49,473	958,794	19.38	31,822
	1926	3	54,510	1,218,887	22.36	34,903
	1925	3	54,306	1,247,120	22.96	32,672
Vermont-----	1927	4	31,795	549,741	17.29	32,562
	1926	6	45,554	937,464	19.31	46,376
	1925	6	45,522	896,509	18.48	46,597
California and Oregon-----	1927	7	267,235	2,764,536	10.34	200,869
	1926	7	232,989	2,655,507	11.40	178,841
	1925	7	209,349	2,501,949	11.95	160,736
Other States ¹ -----	1927	19	556,560	5,610,871	10.08	284,313
	1926	16	558,387	5,705,842	10.22	281,003
	1925	16	534,180	5,705,489	10.68	265,091

¹ See footnote 1, Table 5.

TABLE 11.—IMPORTS AND EXPORTS OF PULPWOOD, BY QUANTITY, VALUE, AND CONDITION: 1927 AND 1926

CONDITION	1927			1926		
	Quantity (cords)	Total value	Average value per cord	Quantity (cords)	Total value	Average value per cord
IMPORTS						
Pulpwood, total.....	1,596,787	\$16,484,345	\$10.32	1,383,619	\$14,176,256	\$10.25
Rough.....	431,251	4,239,933	9.83	367,227	3,633,110	9.89
Peeled.....	1,074,330	11,013,862	10.25	927,722	9,438,298	10.17
Rossed.....	91,206	1,230,550	13.49	83,670	1,104,848	12.46
EXPORTS						
Pulpwood (condition not specified).....	59,059	484,724	8.21	112,662	113,924	9.00

¹ Reported as 1,620,762 cubic feet reduced to cords on basis of 128 cubic feet.

TABLE 12.—IMPORTS AND EXPORTS OF WOOD PULP, BY QUANTITY, VALUE, AND PROCESS: 1927 AND 1926

KIND	1927			1926		
	Quantity (tons, 2,000 pounds)	Total value	Average value per ton	Quantity (tons, 2,000 pounds)	Total value	Average value per ton
IMPORTS						
Woodpulp, total.....	1,679,468	\$86,086,270	\$51.26	1,731,413	\$91,230,740	\$52.69
Sulphite, total.....	1,035,985	58,487,471	56.46	1,034,590	60,710,399	58.68
Unbleached.....	687,519	34,262,845	49.84	704,394	37,032,470	52.57
Bleached.....	348,466	24,224,626	69.52	330,196	23,677,929	71.71
Sulphate, total.....	394,134	21,393,010	54.28	393,064	22,242,121	56.59
Unbleached.....	382,050	20,684,298	54.14	374,979	21,193,459	56.52
Bleached.....	12,084	708,712	58.65	18,085	1,048,662	57.99
Ground wood.....	245,599	5,961,821	24.27	303,759	8,278,220	27.25
Other pulp.....	3,750	243,968	65.06	(¹)	(¹)	-----
EXPORTS						
Wood pulp, total.....	32,006	1,533,630	47.92	34,220	2,084,224	60.90
Sulphite.....	27,162	1,265,859	46.60	23,380	1,345,686	57.56
Soda.....	2,270	176,507	77.75	1,793	132,690	74.00
Other.....	2,574	91,264	35.46	9,047	605,848	66.96

¹ Not reported.

CONVERTED PAPER PRODUCTS INDUSTRIES

[A preliminary report covering these industries was issued under date of April 13, 1929.]

The converted paper products industries are as follows: "Bags, paper, exclusive of those made in paper mills"; "Boxes, paper and other, not elsewhere classified"; "Card cutting and designing"; "Cardboard, not made in paper mills"; "Envelopes"; "Paper goods, not elsewhere classified"; "Paper patterns"; and "Wall paper." As the "Labels and tags" industry is more or less closely allied to these industries, statistics for that industry have been presented on page 592.

Detailed statistics of products.—The differences between the values of the several classes of products as given in the table showing production by type, class, and value, page 574, and in Tables 1 and 3 of the eight industry reports, are due to the fact that the detailed product statistics cover the entire output of the items, regardless of the industries reporting them, whereas the statistics in Tables 1 and 3 relate, respectively, to the establishments whose principal products are those from which the industries derive their titles. To illustrate: The total value of paper bags given in the product table, \$71,010,527, is made up of \$54,609,696 representing the value of paper bags made in the paper-bag industry and \$16,400,831 representing the value of paper bags made as secondary products in other industries; whereas the total value of products for the paper-bag industry, \$57,489,652 (Tables 1 and 3), is made up of the value of paper bags made in the industry, \$54,609,696, and the value of secondary products normally belonging to other industries, \$2,879,956.

Comparability of statistics for earlier years.—The census for 1927 was the first at which a special schedule, calling for the values of the several classes of commodities in detail, has been used for these industries, and consequently the table "Converted paper products—Production, by class, type, and value, for the United States: 1927," on page 574 does not show comparative figures for earlier years.

CONVERTED PAPER PRODUCTS

573

SUMMARY FOR CONVERTED PAPER PRODUCTS INDUSTRIES: 1921 TO 1927

INDUSTRY AND CENSUS YEAR	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
Total:							
1927-----	1,939	96,005	103,569	344,562	627,293	282,731	165,120
1925-----	1,867	93,547	97,816	302,703	560,552	257,849	143,702
1923-----	1,855	94,230	93,541	294,081	532,859	238,778	131,372
1921-----	1,791	76,126	71,742	215,596	395,357	179,761	(¹)
Bags, paper, exclusive of those made in paper mills:							
1927-----	88	6,463	6,394	40,735	57,490	16,755	9,336
1925-----	66	5,585	5,524	29,957	45,978	16,021	6,414
1923-----	64	4,686	4,587	29,375	42,272	12,897	6,108
1921-----	57	3,707	3,476	29,797	41,190	11,393	(¹)
Boxes, paper and other, not elsewhere classified:							
1927-----	1,219	56,398	57,701	168,464	306,555	138,091	81,300
1925-----	1,229	57,148	57,172	151,712	281,944	130,232	76,185
1923-----	1,216	56,855	53,966	144,080	264,209	120,129	61,687
1921-----	1,191	46,242	40,477	88,268	174,248	85,980	(¹)
Card cutting and designing:							
1927-----	60	2,024	2,707	7,544	16,871	9,327	3,915
1925-----	49	1,086	1,084	2,436	6,201	3,765	1,355
1923-----	47	1,207	1,242	2,643	6,109	3,466	1,262
1921-----	49	762	803	2,019	4,558	2,539	(¹)
Cardboard, not made in paper mills:							
1927-----	9	658	849	2,868	5,581	2,713	1,779
1925-----	13	978	1,188	3,475	7,288	3,813	1,795
1923-----	15	1,176	1,340	5,332	9,340	4,008	2,354
1921-----	20	1,157	1,172	3,914	7,642	3,728	(¹)
Envelopes:							
1927-----	153	9,745	10,755	28,973	56,006	27,033	11,391
1925-----	135	9,052	9,987	27,423	51,189	23,766	10,288
1923-----	132	9,241	9,525	27,528	50,732	23,224	9,904
1921-----	123	7,944	8,181	24,052	43,911	19,859	(¹)
Paper goods, not elsewhere classified:							
1927-----	340	14,837	17,765	78,797	140,948	62,151	42,955
1925-----	310	13,386	15,403	70,700	124,217	53,517	35,324
1923-----	311	14,724	15,562	66,958	116,162	49,204	37,840
1921-----	290	11,510	11,807	49,872	84,129	34,257	(¹)
Paper patterns:							
1927-----	17	1,069	1,417	2,569	13,783	11,214	1,101
1925-----	16	1,243	1,595	2,001	13,666	11,665	813
1923-----	19	929	1,098	1,174	9,259	8,085	971
1921-----	18	816	844	1,338	10,531	9,193	(¹)
Wall paper:							
1927-----	53	4,811	5,981	14,612	30,059	15,447	13,343
1925-----	49	5,069	5,803	14,999	30,069	15,070	11,528
1923-----	51	5,412	6,221	16,991	34,756	17,765	11,246
1921-----	43	3,988	4,982	16,336	29,148	12,812	(¹)

¹ Not called for on schedule.

CONVERTED PAPER PRODUCTS—PRODUCTION, BY CLASS, TYPE, AND VALUE,
FOR THE UNITED STATES: 1927¹

CLASS AND TYPE	Value	CLASS AND TYPE	Value
1. Converted paper products industries, all products, total value.....	\$626, 509, 354	Converted paper products, all industries—Continued.	
2. Converted paper products.....	611, 272, 187	Cards cut and designed—Contd.	
3. Other products (not normally belonging to the industries).....	15, 237, 167	Jacquard cards for textile fabric machines.....	
4. Converted paper products made as secondary products in other industries.....	144, 105, 872	Photograph mats, mounts, folders, etc.....	\$680, 295
Converted paper products, all industries:		Other.....	7, 552, 380
Aggregate value (sum of 2 and 4).....	755, 378, 059	Cardboard.....	7, 266, 582
Bags, paper.....	71, 010, 527	Coated book paper.....	40, 725, 170
Bottle caps, paper.....	3, 812, 271	Confetti.....	73, 734
Boxes and containers, paper and paperboard, total.....	332, 428, 153	Crêpe paper.....	2, 296, 453
Shipping containers, corrugated.....	96, 229, 324	Cups, paper.....	6, 413, 480
Shipping containers, solid-fiber.....	45, 673, 839	Dishes, spoons, etc., paper.....	3, 686, 026
Cartons and folding boxes.....	83, 793, 936	Envelopes.....	54, 511, 905
Set-up paper boxes.....	89, 931, 531	Glazed and fancy paper.....	11, 367, 144
Paper cans.....	8, 126, 247	Gummed tape.....	8, 241, 670
Decorated, lithographed, lacquered, and fancy covered boxes.....	2, 981, 553	Lace paper.....	1, 701, 946
Other boxes and containers.....	5, 691, 723	Napkins, paper.....	5, 686, 365
Cards cut and designed, total.....	15, 681, 891	Papeteries.....	16, 093, 472
Index, library, etc., cards, plain.....	2, 502, 885	Patterns, paper.....	13, 733, 067
		Tablets, total.....	8, 684, 323
		Book.....	842, 736
		News.....	535, 539
		Writing.....	6, 980, 105
		Other.....	325, 943
		Toilet paper.....	20, 746, 866
		Towels, paper.....	6, 098, 813
		Wall paper.....	29, 984, 612
		Waterproof wrapping paper.....	4, 211, 545
		Waxed paper.....	27, 577, 399
		Other converted paper and paper-board products ²	63, 344, 645

¹ See "Detailed statistics of products," p. 572.

² This item comprises (1) cigarette paper, playing cards, and twisted paper, which can not be shown separately without disclosing the production of individual establishments, and (2) miscellaneous paper products not specifically reported by kind.

BAGS, PAPER, EXCLUSIVE OF THOSE MADE IN PAPER MILLS

The establishments classified in this industry are engaged primarily in the manufacture, from purchased paper, of bags for groceries and other merchandise, shopping bags, and garment bags. Some establishments in certain other industries—for example, the "Flour and other grain-mill products" industry—manufacture the paper bags in which their products are shipped, but the value of such bags is not separately reported and consequently such production is not covered by this report.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years.
See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	88	6,463	\$6,393,675	\$40,734,599	\$57,489,652	\$16,755,053	9,336
1925-----	66	5,585	5,523,708	29,956,962	45,977,902	16,020,940	6,414
1923-----	64	4,686	4,586,991	29,375,224	42,272,470	12,897,246	6,108
1921-----	57	3,707	3,475,487	29,797,291	41,190,179	11,392,888	(²)
1919-----		4,168	3,662,830	33,350,481	47,263,990	13,913,509	4,429
PER CENT OF INCREASE							
1925-1927-----	(³)	15.7	15.7	36.0	25.0	4.6	45.6
1923-1925-----	(³)	19.2	20.4	2.0	8.8	24.2	5.0
1923-1927-----	(³)	37.9	39.4	38.7	35.0	29.9	52.8
1919-1927-----	(³)	55.1	74.6	22.1	21.6	20.4	110.8

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	2,959	Horse-power 9,336	2,045	Horse-power 6,414	1,668	Horse-power 6,108
Steam engines-----	9	925	10	878	10	1,410
Internal-combustion engines-----	2	85				
Water wheels and turbines-----	1	180	2	280		
Electric motors driven by purchased current-----	2,947	8,146	2,033	5,256	1,658	4,698
Electric motors, total-----	3,086	8,682	2,195	5,699	1,913	5,571
Driven by purchased current-----	2,947	8,146	2,033	5,256	1,658	4,698
Driven by current generated in establishment reporting-----	139	536	162	443	255	873
Electric generators-----	5	Kilowatts 538	10	Kilowatts 915	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE INDUSTRY				Horse- power
		Total	Propri- etors and firm mem- bers	Salaried officers and em- ployees	Wage earners (average for the year)	
United States.....	88	7,323	27	833	6,463	9,336
Illinois.....	4	513	-----	55	458	891
Massachusetts.....	4	229	2	24	203	371
New Jersey.....	3	72	-----	17	55	60
New York.....	27	1,921	12	253	1,650	2,798
Ohio.....	14	1,187	-----	117	1,050	1,440
Pennsylvania.....	10	696	8	100	588	1,134
Wisconsin.....	5	426	-----	61	365	559
Other States ¹	21	2,299	5	206	2,088	2,284

STATE	Salaries	Wages	Cost of materials, sup- plies, fuel, and power		Value of products	Value added by manu- facture ²
			Materials and supplies	Fuel and power		
United States.....	\$2,112,610	\$6,393,675	\$40,439,859	\$294,740	\$57,489,652	\$16,755,053
Illinois.....	124,981	435,657	2,993,614	28,388	4,194,661	1,172,659
Massachusetts.....	53,627	209,190	1,617,605	11,201	2,222,451	593,645
New Jersey.....	89,377	50,370	214,248	4,547	507,672	288,877
New York.....	671,262	1,747,986	13,533,896	79,341	18,482,290	4,869,053
Ohio.....	331,273	1,041,435	6,597,639	54,598	9,722,338	3,070,101
Pennsylvania.....	246,549	787,469	3,256,466	36,324	4,955,122	1,662,332
Wisconsin.....	130,044	357,439	2,062,729	17,619	3,030,532	950,184
Other States ¹	515,497	1,764,129	10,163,662	62,722	14,374,586	4,148,202

¹ California, 2 establishments; Connecticut, 1; Indiana, 2; Louisiana, 4; Maine, 1; Maryland, 3; Michigan, 1; Minnesota, 1; Mississippi, 1; Missouri, 1; Texas, 1; Virginia, 3.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

BOXES, PAPER AND OTHER, NOT ELSEWHERE CLASSIFIED

The establishments in this industry are engaged primarily in the manufacture of shipping containers; cartons and folding boxes; set-up paper boxes; paper cans; decorated, lithographed, lacquered, and fancy covered paper boxes; and other paper boxes and containers.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years.
See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	1,219	56,398	\$57,700,664	\$168,463,799	\$306,555,062	\$138,091,263	81,300
1925-----	1,229	57,148	57,172,027	151,711,699	281,943,969	130,232,270	76,185
1923-----	1,216	56,855	53,965,852	144,079,470	264,209,159	120,129,689	61,687
1921-----	1,191	46,242	40,476,681	88,267,758	174,248,477	85,980,719	(²)
1919-----	1,201	55,862	43,325,554	101,135,292	206,419,343	105,284,051	54,675
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	-0.8	-1.3	0.9	11.0	8.7	6.0	6.7
1923-1925-----	1.1	.5	5.9	5.3	6.7	8.4	23.5
1923-1927-----	.2	— .8	6.9	16.9	16.0	15.0	31.8
1919-1927-----	1.5	1.0	33.2	66.6	48.5	31.2	48.7

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	20,926	<i>Horse-power</i> 81,300	17,761	<i>Horse-power</i> 76,185	12,782	<i>Horse-power</i> 61,687
Steam engines-----	99	13,847	104	12,733	137	16,314
Steam turbines-----	4	648	6	2,389		
Internal-combustion engines-----	16	603	30	1,141	74	820
Water wheels and turbines-----	6	281	26	708	43	2,095
Electric motors driven by purchased current-----	20,801	65,921	17,595	59,214	12,528	42,458
Electric motors, total-----	23,654	77,742	19,360	67,787	14,289	53,886
Driven by purchased current-----	20,801	65,921	17,595	59,214	12,528	42,458
Driven by current generated in establishment reporting-----	2,853	11,821	1,765	8,573	1,761	11,428
Electric generators-----	69	<i>Kilowatts</i> 8,801	103	<i>Kilowatts</i> 9,616	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	1, 219	64, 649	512	7, 739	56, 398	81, 300
California.....	45	2, 190	17	316	1, 857	3, 748
Colorado.....	4	193	3	20	170	177
Connecticut.....	42	2, 265	11	233	2, 021	4, 121
Georgia.....	9	471	2	76	393	363
Illinois.....	110	6, 858	44	878	5, 936	8, 654
Indiana.....	26	2, 194	7	333	1, 854	2, 940
Iowa.....	11	340	1	45	294	358
Louisiana.....	7	331	5	30	296	340
Maine.....	12	314	2	27	285	273
Maryland.....	29	1, 398	14	156	1, 228	1, 566
Massachusetts.....	117	6, 098	47	751	5, 300	6, 664
Michigan.....	22	1, 302	10	136	1, 156	1, 463
Minnesota.....	17	1, 002	4	134	864	2, 520
Missouri.....	53	3, 224	13	437	2, 774	3, 846
New Hampshire.....	9	193	3	22	168	373
New Jersey.....	63	3, 398	14	388	2, 996	6, 728
New York.....	317	14, 523	161	1, 716	12, 646	13, 814
North Carolina.....	9	331	2	18	311	198
Ohio.....	66	4, 224	19	384	3, 821	9, 586
Oregon.....	8	243	4	22	217	240
Pennsylvania.....	131	6, 021	92	660	5, 269	4, 570
Rhode Island.....	11	593	3	62	528	432
Tennessee.....	12	768	4	92	672	819
Texas.....	8	308	1	32	275	241
Virginia.....	13	630	4	59	567	692
Washington.....	12	309	4	47	258	346
West Virginia.....	6	350	—	46	334	768
Wisconsin.....	28	2, 529	9	443	2, 077	3, 113
Other States ¹	22	2, 019	12	176	1, 831	2, 347

See footnote at end of table.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927—Continued

[See note at head of this table]

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ¹
			Materials and supplies	Fuel and power		
United States.....	\$20,738,937	\$57,700,664	\$165,373,368	\$3,090,431	\$306,555,062	\$138,091,263
California.....	761,604	2,358,369	6,363,875	57,063	11,918,464	5,497,526
Colorado.....	58,012	149,663	288,403	7,321	642,953	347,229
Connecticut.....	776,604	2,124,625	4,481,631	110,153	8,916,590	4,324,806
Georgia.....	230,963	260,746	827,008	13,008	1,817,213	977,197
Illinois.....	2,517,802	6,997,010	21,088,840	321,783	37,585,955	16,175,332
Indiana.....	730,066	2,135,816	8,488,005	138,312	13,831,025	5,204,708
Iowa.....	116,548	243,430	792,555	15,327	1,457,815	649,933
Louisiana.....	83,400	186,286	603,647	11,226	1,138,653	523,780
Maine.....	59,988	210,634	326,947	9,648	729,086	392,491
Maryland.....	351,616	977,542	2,455,621	46,698	4,993,916	2,491,597
Massachusetts.....	1,763,321	5,135,138	12,254,736	249,944	24,263,922	11,759,242
Michigan.....	416,846	1,226,304	5,036,707	60,056	8,006,313	2,909,550
Minnesota.....	363,472	924,217	2,676,491	27,804	4,765,497	2,061,202
Missouri.....	1,094,256	2,677,610	8,245,453	138,369	15,080,185	6,696,363
New Hampshire.....	48,151	140,369	397,113	10,989	710,006	301,904
New Jersey.....	1,230,150	3,200,942	9,557,165	198,708	17,541,113	7,785,240
New York.....	4,711,040	13,885,890	31,353,087	721,347	66,727,643	34,653,209
North Carolina.....	38,386	215,220	462,500	8,838	933,308	461,967
Ohio.....	1,195,424	4,182,365	16,046,234	393,318	25,717,846	9,278,294
Oregon.....	54,207	191,939	342,079	8,018	785,528	435,431
Pennsylvania.....	1,833,447	4,641,754	10,274,486	198,836	20,944,864	10,471,542
Rhode Island.....	158,137	468,230	556,258	14,781	1,485,645	914,606
Tennessee.....	255,101	510,914	2,151,999	25,913	3,332,092	1,154,180
Texas.....	70,621	185,847	639,670	11,010	1,149,497	498,817
Virginia.....	150,467	434,240	1,443,841	20,955	2,460,333	995,537
Washington.....	139,613	260,594	668,047	22,305	1,385,727	695,375
West Virginia.....	101,908	367,373	2,022,047	34,816	3,116,449	1,059,536
Wisconsin.....	961,396	2,092,703	9,526,588	138,749	15,263,525	5,598,188
Other States ¹	466,391	1,314,894	6,002,335	75,136	9,853,902	3,776,431

¹ Alabama, 1 establishment; Arkansas, 2; Delaware, 1; District of Columbia, 2; Florida, 1; Kansas, 3; Kentucky, 5; Nebraska, 1; Oklahoma, 1; South Dakota, 1; Utah, 2; Vermont, 2.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

CARDBOARD, NOT MADE IN PAPER MILLS

The establishments in this industry are engaged primarily in surface coating and glazing paper, box board, fiber board, and the like. The principal products are printers' cardboard, display cut-outs, lithographic mounts, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	9	658	\$848,807	\$2,868,066	\$5,581,164	\$2,713,108	1,779
1925-----	13	978	1,188,290	3,474,507	7,288,016	3,813,509	1,795
1923-----	15	1,176	1,339,370	5,331,704	9,339,814	4,008,110	2,354
1921-----	20	1,157	1,172,139	3,914,393	7,641,962	3,727,569	(²)
1919-----	16	1,425	1,337,177	4,953,915	9,138,415	4,184,500	3,251
PER CENT OF DECREASE							
1925-1927-----	(³)	-32.7	-28.6	-17.5	-23.4	-28.9	-0.9
1923-1925-----	(³)	-16.8	-11.3	-34.8	-22.0	-4.9	-23.7
1923-1927-----	(³)	-44.0	-36.6	-46.2	-40.2	-32.3	-24.4
1919-1927-----	(³)	-53.8	-36.5	-42.1	-38.9	-35.2	-45.3

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	304	<i>Horse-power</i> 1,779	219	<i>Horse-power</i> 1,795	172	<i>Horse-power</i> 2,354
Steam engines-----	10	1,025	11	1,105	15	1,355
Internal-combustion engines-----			2	38	3	53
Electric motors driven by purchased current-----	294	754	206	652	154	946
Electric motors, total-----	494	879	306	762	283	1,528
Driven by purchased current-----	294	754	206	652	154	946
Driven by current generated in establishment reporting-----	200	125	100	110	129	582
Electric generators-----	3	<i>Kilowatts</i> 225	3	<i>Kilowatts</i> 225	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	9	897	1	238	658	1,779
Pennsylvania.....	3	474	—	143	331	761
Other States ¹	6	423	1	95	327	1,018

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$788,260	\$848,807	\$2,816,283	\$51,773	\$5,581,164	\$2,713,108
Pennsylvania.....	469,945	418,462	1,159,344	17,135	2,497,655	1,321,176
Other States ¹	318,315	430,345	1,656,939	34,638	3,083,509	1,391,932

¹ Illinois, 2 establishments; Massachusetts, 2; New York, 1; Rhode Island, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

CARD CUTTING AND DESIGNING

The establishments in this industry are engaged primarily in the manufacture of index, library, and record cards; guides, etc.; stencil cards for addressing machines; photograph mats, mounts, and folders; pattern cards for weaving; and related products.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	60	2,024	\$2,706,633	\$7,544,043	\$16,871,312	\$9,327,269	3,915
1925-----	49	1,036	1,083,764	2,436,165	6,201,284	3,765,119	1,355
1923-----	47	1,207	1,242,242	2,643,095	6,109,298	3,466,203	1,262
1921-----	49	762	803,406	2,018,892	4,557,834	2,538,042	(²)
1919-----	75	1,148	958,877	2,298,389	5,323,349	3,024,960	743
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	(³)	86.4	149.7	209.7	172.1	147.7	188.9
1923-1925-----	(³)	-10.0	-12.8	-7.8	1.5	8.6	7.4
1923-1927-----	(³)	67.7	117.9	185.4	176.2	169.1	210.2
1919-1927-----	(³)	76.3	182.3	228.2	216.9	208.3	426.9

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	1,137	<i>Horse-power</i> 3,915	340	<i>Horse-power</i> 1,355	329	<i>Horse-power</i> 1,262
Steam engines-----	6	1,126	3	600	4	614
Internal-combustion engines-----	1	14	5	102	1	20
Electric motors driven by purchased current-----	1,130	2,775	332	653	324	628
Electric motors, total-----	1,280	3,523	368	983	351	944
Driven by purchased current-----	1,130	2,775	332	653	324	628
Driven by current generated in establishment reporting-----	150	748	36	330	27	316
Electric generators-----	5	<i>Kilowatts</i> 700	3	<i>Kilowatts</i> 300	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Num- ber of estab- lish- ments	PERSONS ENGAGED IN THE IN- DUSTRY				Horse- power
		Total	Pro- pri- etors and firm mem- bers	Salaried officers and em- ployees	Wage earners (average for the year)	
United States	60	2,505	31	450	2,024	3,915
Massachusetts	5	120	2	37	81	92
Michigan	4	446	2	64	380	1,000
New Jersey	7	77	6	9	62	99
New York	17	495	9	139	347	1,158
Ohio	6	549	1	76	472	455
Pennsylvania	10	301	8	44	249	275
Other States ¹	11	517	3	81	433	836

STATE	Salaries	Wages	Cost of materials, sup- plies, fuel, and power		Value of products	Value added by manu- facture ²
			Materials and supplies	Fuel and power		
United States	\$1,227,691	\$2,706,633	\$7,443,530	\$100,513	\$16,871,312	\$9,227,269
Massachusetts	76,737	84,111	261,864	3,641	660,391	394,886
Michigan	278,353	508,833	2,453,710	24,124	3,933,613	1,455,779
New Jersey	38,559	115,448	358,455	2,714	648,684	287,515
New York	305,706	450,265	1,702,081	18,086	4,670,954	2,950,787
Ohio	183,090	776,985	1,048,261	12,754	2,671,344	1,610,329
Pennsylvania	148,459	267,797	310,013	6,801	1,003,287	686,473
Other States ¹	196,782	503,194	1,309,146	32,393	3,283,039	1,941,500

¹ California, 1 establishment; District of Columbia, 1; Illinois, 2; Indiana, 1; Maryland, 2; Missouri, 2; Rhode Island, 1; Wisconsin, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

ENVELOPES

This classification covers all manufacturers whose products of chief value are envelopes of any description, such as plain, window, and other special mailing envelopes and envelopes for filing, wrapping, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	153	9,745	\$10,754,636	\$28,973,192	\$56,006,225	\$27,033,033	11,391
1925-----	135	9,052	9,987,202	27,423,300	51,188,914	23,765,614	10,288
1923-----	132	9,241	9,525,054	27,527,875	50,751,558	23,223,683	9,904
1921-----	123	7,944	8,180,523	24,051,507	43,910,409	19,858,902	(²)
1919-----	106	8,129	6,649,989	21,964,743	39,664,077	17,699,334	7,124
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	13.3	7.7	7.7	5.7	9.4	13.7	10.7
1923-1925-----	2.3	-2.0	4.9	-4	.9	2.3	3.9
1923-1927-----	15.9	5.5	12.9	5.3	10.4	16.4	15.0
1919-1927-----	44.3	19.9	61.7	31.9	41.2	52.7	59.9

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	4,965	Horse-power 11,391	4,358	Horse-power 10,288	3,707	Horse-power 9,904
Steam engines-----	22	2,611	21	2,619	27	2,914
Steam turbines-----	1	50	3	100		
Internal-combustion engines-----	4	110	5	190		
Water wheels and turbines-----	2	265	2	265	2	215
Electric motors driven by purchased current-----	4,936	8,355	4,327	7,114	3,674	6,564
Electric motors, total-----	6,692	11,078	5,800	9,258	4,151	7,305
Driven by purchased current-----	4,936	8,355	4,327	7,114	3,674	6,564
Driven by current generated in establishment reporting-----	1,756	2,723	1,473	2,144	477	741
Electric generators-----	21	Kilowatts 2,042	22	Kilowatts 1,843	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	153	11,496	33	1,718	9,745	11,391
California.....	8	381	2	59	320	373
Illinois.....	21	1,608	6	297	1,305	1,927
Massachusetts.....	17	2,650	5	417	2,228	2,501
Michigan.....	4	202	-----	34	168	281
Minnesota.....	7	300	-----	46	254	225
Missouri.....	12	564	4	93	467	723
New York.....	33	1,913	10	339	1,564	1,772
Ohio.....	9	1,646	1	87	1,558	1,247
Pennsylvania.....	13	652	-----	95	557	497
Other States ¹	29	1,580	5	251	1,324	1,845

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$4,176,574	\$10,754,636	\$28,570,493	\$402,699	\$56,006,225	\$27,033,033
California.....	116,748	406,543	905,971	8,297	1,943,606	1,029,338
Illinois.....	809,569	1,694,120	3,759,914	68,511	8,539,163	4,710,738
Massachusetts.....	872,007	2,490,333	7,790,258	78,662	13,876,224	6,007,304
Michigan.....	90,362	212,721	485,511	7,624	1,069,719	573,584
Minnesota.....	84,075	244,568	415,235	11,662	961,051	534,154
Missouri.....	249,796	503,786	1,397,144	22,112	2,848,061	1,428,805
New York.....	758,939	1,663,761	3,722,165	73,741	7,859,898	4,063,992
Ohio.....	290,553	1,630,969	5,693,338	55,696	9,530,241	3,781,207
Pennsylvania.....	293,896	540,970	1,203,951	21,962	2,626,688	1,400,775
Other States ¹	610,629	1,360,865	3,197,006	54,432	6,754,574	3,503,136

¹ Colorado, 2 establishments; Connecticut 2; Georgia, 1; Indiana, 1; Iowa, 1; Kentucky, 2; Maryland, 3; Nebraska, 2; New Jersey, 2; Tennessee, 1; Texas, 2; Utah, 1; Virginia, 3; Washington, 2; Wisconsin, 4.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

PAPER GOODS, NOT ELSEWHERE CLASSIFIED

The establishments in this industry are engaged primarily in the manufacture, from purchased paper stock, of waxed paper; glazed and fancy paper; toilet paper; coated book paper; gummed tape; paper cups, dishes, spoons, etc.; paper napkins; water-proof wrapping paper; paper towels; crêpe and lace paper; bottle caps; playing cards; paper cores and tubes; egg-case fillers; bag, barrel, and trunk linings; adding-machine and cash-register paper; soda straws; stencil paper; etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	340	14,837	\$17,765,281	\$78,796,805	\$140,947,815	\$62,151,010	42,955
1925-----	310	13,386	15,403,497	70,699,682	124,217,274	53,517,592	35,324
1923-----	311	14,724	15,562,431	66,958,269	116,162,055	49,203,796	37,840
1921-----	290	11,510	11,807,357	49,872,170	84,129,401	34,257,231	(²)
1919-----	308	14,135	12,666,924	65,295,484	107,284,759	41,989,275	35,369
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	9.7	10.8	15.3	11.5	13.5	16.1	21.6
1923-1925-----	—3	—9.1	—1.0	5.6	6.9	8.8	—6.6
1923-1927-----	9.3	.8	14.2	17.7	21.3	26.3	13.5
1919-1927-----	10.4	5.0	40.2	20.7	31.4	48.0	21.4

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	5,182	<i>Horse-power</i> 42,955	4,095	<i>Horse-power</i> 35,324	3,701	<i>Horse-power</i> 37,840
Steam engines-----	48	10,365	44	10,656	71	16,613
Steam turbines-----	4	259	2	135	20	215
Internal-combustion engines-----	9	170	12	208	8	1,225
Water wheels and turbines-----	9	1,460	7	960		
Electric motors driven by purchased current-----	5,112	30,701	4,030	23,365	3,602	19,787
Electric motors, total-----	7,188	39,260	5,237	32,132	5,054	28,510
Driven by purchased current-----	5,112	30,701	4,030	23,365	3,602	19,787
Driven by current generated in establishment reporting-----	2,076	8,559	1,207	8,767	1,452	8,723
Electric generators-----	39	<i>Kilowatts</i> 6,741	27	<i>Kilowatts</i> 6,722	(¹)	<i>Kilowatts</i> (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments. Certain of the "Other States," however, reported larger values of products than some of the States shown separately.]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	340	17,870	99	2,934	14,837	42,955
California.....	10	200	5	13	182	517
Connecticut.....	4	48	3	9	36	124
Illinois.....	26	1,441	9	254	1,178	3,229
Indiana.....	7	254	1	23	230	321
Iowa.....	3	46	3	15	28	118
Massachusetts.....	54	2,425	13	405	2,007	7,622
Michigan.....	10	203	5	37	161	962
Missouri.....	5	132	-----	20	112	837
New Jersey.....	31	1,438	8	254	1,176	3,333
New York.....	74	3,775	18	642	3,115	10,707
Ohio.....	21	2,875	11	266	2,598	4,465
Pennsylvania.....	29	1,255	9	298	948	1,900
Rhode Island.....	11	454	4	50	400	1,697
Tennessee.....	4	41	1	12	28	135
Vermont.....	5	249	4	44	201	553
Wisconsin.....	15	994	-----	184	810	1,935
Other States ¹	31	2,040	5	408	1,627	4,500

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$8,638,956	\$17,765,281	\$77,160,546	\$1,636,259	\$140,947,815	\$62,151,010
California.....	28,380	195,265	1,451,618	15,825	2,209,828	742,385
Connecticut.....	15,470	47,420	114,806	5,012	229,255	109,437
Illinois.....	958,792	1,700,317	7,581,183	114,301	15,870,947	8,175,463
Indiana.....	48,878	225,142	1,378,242	23,374	2,140,856	739,240
Iowa.....	35,783	37,877	598,937	2,794	710,928	109,197
Massachusetts.....	1,224,298	2,413,778	10,750,982	264,399	18,241,172	7,225,791
Michigan.....	101,473	220,597	979,381	30,253	1,634,222	624,588
Missouri.....	111,538	160,307	1,132,670	35,440	2,024,158	850,048
New Jersey.....	778,710	1,433,481	6,125,066	132,924	12,017,598	5,759,608
New York.....	2,020,131	3,720,387	15,771,713	377,911	27,697,654	11,548,030
Ohio.....	726,928	3,104,640	9,453,773	176,895	22,936,242	13,305,574
Pennsylvania.....	791,000	1,095,304	3,970,562	89,579	7,132,663	3,072,522
Rhode Island.....	217,327	456,449	1,107,979	67,112	2,344,824	1,169,733
Tennessee.....	23,975	40,939	201,715	6,085	318,339	110,539
Vermont.....	103,801	200,821	1,733,101	18,445	2,339,674	588,128
Wisconsin.....	497,524	899,718	4,211,850	83,773	7,133,891	2,838,268
Other States ¹	954,948	1,812,839	10,596,968	192,137	15,965,564	5,176,459

¹ District of Columbia, 1 establishment; Georgia, 2; Kansas, 1; Louisiana, 1; Maine, 1; Maryland, 4; Minnesota, 4; Nebraska, 1; New Hampshire, 3; North Carolina, 2; Oregon, 2; Texas, 2; Virginia, 3; Washington, 4.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

PAPER PATTERNS

The establishments in this industry are engaged primarily in the manufacture of cut and stamped paper patterns for garments, embroidery, etc., transfer patterns, and fashion plates.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927-----	17	1,069	\$1,417,608	\$2,568,910	\$13,782,356	\$11,213,446	1,101
1925-----	16	1,243	1,594,505	2,001,003	13,665,410	11,664,407	813
1923-----	19	929	1,098,053	1,173,608	9,258,956	8,085,348	971
1921-----	18	816	844,107	1,337,500	10,530,453	9,192,953	(²)
1919-----	19	403	374,479	316,890	1,528,382	1,211,492	68
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927-----	(³)	-14.0	-11.1	28.4	0.9	-3.9	35.4
1923-1925-----	(³)	33.8	45.2	70.5	47.6	44.3	-16.3
1923-1927-----	(³)	15.1	29.1	118.8	48.9	38.7	13.4
1919-1927-----	(³)	165.3	278.6	710.7	801.8	825.6	(³)

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total-----	192	<i>Horse-power</i> 1,101	227	<i>Horse-power</i> 813	211	<i>Horse-power</i> 971
Electric motors driven by purchased current-----	192	1,101	227	813	211	971
Electric motors, total-----	192	1,101	227	813	211	971
Driven by purchased current-----	192	1,101	227	813	211	971

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States.....	17	2,320	7	1,244	1,069	1,101
New York.....	14	2,048	6	1,162	880	889
Other States ¹	3	272	1	82	189	212

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States.....	\$2,179,524	\$1,417,608	\$2,535,666	\$33,244	\$13,782,356	\$11,213,446
New York.....	2,066,900	1,143,876	1,756,752	29,582	10,913,319	9,126,985
Other States ¹	112,624	273,732	778,914	3,662	2,869,037	2,086,461

¹ Illinois, 1 establishment; New Jersey, 1; Ohio, 1.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

WALL PAPER

The establishments in this industry are engaged primarily in designing and printing wall paper, using as their principal material "hanging paper" manufactured in paper mills.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1927

[Data for establishments with products under \$5,000 in value included for 1919 but not for subsequent years. See sec. 10, p. 6]

YEAR OR PERIOD	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture ¹	Horse-power
1927.....	53	4,811	\$5,981,451	\$14,612,415	\$30,059,153	\$15,446,738	13,343
1925.....	49	5,069	5,862,765	14,999,041	30,069,005	15,069,964	11,528
1923.....	51	5,412	6,221,266	16,991,411	34,755,700	17,764,289	11,246
1921.....	43	3,988	4,981,572	16,336,110	29,147,905	12,811,795	(²)
1919.....	48	4,262	3,882,396	13,152,503	23,047,901	9,895,398	8,123
PER CENT OF INCREASE OR DECREASE (—)							
1925-1927.....	(³)	-5.1	2.0	-2.6	(⁴)	2.5	15.7
1923-1925.....	(³)	-6.3	-5.8	-11.7	-13.5	-15.2	2.5
1923-1927.....	(³)	-11.1	-3.9	-14.0	-13.5	-13.0	18.6
1919-1927.....	(³)	12.9	54.1	11.1	30.4	56.1	64.3

¹ Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

² Not called for on schedule.

³ Per cent not computed where base is less than 100.

⁴ Less than one-tenth of 1 per cent.

TABLE 2.—PRIME MOVERS, MOTORS, AND GENERATORS, BY TYPE, NUMBER, AND RATED CAPACITY, FOR THE UNITED STATES: 1927, 1925, AND 1923

TYPE	1927		1925		1923	
	Number	Capacity	Number	Capacity	Number	Capacity
Prime movers, total.....	904	Horse-power 13,343	641	Horse-power 11,528	552	Horse-power 11,246
Steam engines.....	47	6,375	48	5,754	49	5,782
Steam turbines.....	3	587	2	487		
Electric motors driven by purchased current.....	854	6,381	591	5,287	503	5,464
Electric motors, total.....	1,179	8,517	866	8,030	679	7,297
Driven by purchased current.....	854	6,381	591	5,287	503	5,464
Driven by current generated in establishment reporting.....	325	2,136	275	2,743	176	1,833
Electric generators.....	22	Kilowatts 3,499	22	Kilowatts 3,410	(¹)	Kilowatts (¹)

¹ Not called for on schedule.

TABLE 3.—GENERAL STATISTICS, BY STATES: 1927

[This table presents statistics for all States for which separate figures can be given without disclosing data reported by individual establishments]

STATE	Number of establishments	PERSONS ENGAGED IN THE INDUSTRY				Horse-power
		Total	Proprietors and firm members	Salaried officers and employees	Wage earners (average for the year)	
United States	53	5,638	1	826	4,811	13,343
Illinois	13	1,523	-----	271	1,252	4,465
New Jersey	6	912	-----	126	786	1,997
New York	16	1,652	-----	247	1,405	3,906
Pennsylvania	11	1,211	1	130	1,080	2,298
Other States ¹	7	340	-----	52	288	677

STATE	Salaries	Wages	Cost of materials, supplies, fuel, and power		Value of products	Value added by manufacture ²
			Materials and supplies	Fuel and power		
United States	\$2,287,981	\$5,981,451	\$14,075,489	\$536,926	\$30,059,153	\$15,446,738
Illinois	510,492	1,687,654	4,982,687	195,096	9,233,534	4,056,651
New Jersey	474,885	1,035,782	2,127,352	52,642	4,875,653	2,695,659
New York	651,459	1,640,815	3,245,976	174,451	7,910,437	4,490,010
Pennsylvania	433,340	1,215,874	2,879,072	89,673	5,842,789	2,874,044
Other States ¹	217,805	401,326	840,402	25,064	2,196,440	1,330,974

¹ Connecticut, 1 establishment; Indiana, 1; Massachusetts, 2; Ohio, 3.

² Value of products less cost of materials, supplies, fuel, and power. (See secs. 18 and 21, pp. 9 and 10.)

SUMMARY FOR LABELS AND TAGS INDUSTRY (GROUP 4), WHICH IS NOT COVERED BY A SEPARATE REPORT, BY STATES

[No detailed report on this industry has been prepared, but some additional information is given, for 1927 only, for the United States as a whole, in Table II, p. 1316; and summaries for States and large cities, carrying statistics for this industry, in comparison with those for other industries, appear in Tables III and IV, pp. 1330 and 1416. See "General explanations," pp. 3-12; in particular, "Limitation of statistics to establishments reporting products valued at \$5,000 or more," p. 6, "Power equipment," p. 7, "Cost of materials," etc., p. 8, "Value added by manufacture," p. 9, and "State and city statistics," p. 11]

[Principal products: Labels and tags of paper, cardboard, metal, celluloid, etc.; baggage and other checks; labels for clothing; patent indexes; laundry and shipping tags; pin tickets; gummed stickers, etc.]

YEAR	Number of establishments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, and power	Value of products	Value added by manufacture	Horse-power
<i>United States</i>							
1927-----	121	6, 141	\$8, 000, 426	\$16, 259, 439	¹ \$34, 397, 630	\$18, 138, 191	6, 869
1925-----	113	5, 356	6, 730, 184	13, 095, 856	¹ 28, 045, 440	14, 949, 584	4, 808
1923-----	103	5, 048	6, 224, 101	12, 129, 804	¹ 26, 023, 030	13, 893, 226	4, 538
1921-----	89	4, 152	4, 776, 868	8, 819, 700	¹ 19, 538, 302	10, 718, 602	(²)
1919-----	119	5, 227	4, 549, 902	11, 274, 767	¹ 24, 243, 992	12, 969, 225	4, 033
<i>States, 1927</i>							
Illinois-----	12	375	516, 232	1, 070, 599	2, 387, 838	1, 317, 239	519
Michigan-----	9	158	175, 548	426, 598	948, 736	522, 138	211
Missouri-----	6	110	132, 077	112, 315	452, 061	339, 740	103
New York-----	42	914	1, 339, 331	2, 378, 905	6, 166, 257	3, 787, 352	1, 193
Ohio-----	7	1, 185	1, 537, 176	3, 322, 857	6, 969, 139	3, 646, 282	1, 501
Pennsylvania-----	13	740	681, 861	1, 278, 585	3, 194, 995	1, 918, 410	437
Other States ³ -----	32	2, 659	3, 618, 201	7, 669, 580	14, 278, 604	6, 609, 024	2, 905

¹ Includes value of miscellaneous products, normally belonging to other industries, made as secondary products by establishments, engaged primarily in the manufacture of labels and tags: 1927, \$7,179,570; 1925, \$5,247,117; no corresponding figures for earlier years. Does not include the following values of labels and tags made as secondary products by establishments classified in other industries: 1927, \$2,020,228; 1925, \$3,253,554; 1923, \$2,683,544; 1921, \$2,123,043; 1919, \$4,152,093.

² Not called for on schedule.

³ California, 3 establishments; District of Columbia, 1; Georgia, 1; Indiana, 1; Kentucky, 3; Maryland, 1; Massachusetts, 6; Minnesota, 2; New Hampshire, 1; New Jersey, 4; Oregon, 1; Rhode Island, 3; Tennessee, 1; Virginia, 1; Washington, 1; Wisconsin, 2. Massachusetts reported a larger value of products than any of the States for which figures are given in the table.